

# SSC CGL TIER 1 - 2024

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## Combined Graduate Level Examination 2024 Tier I

Exam Date	09/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

- Q.1 In a certain code language,  
'A + B' means 'A is the mother of B',  
'A - B' means 'A is the father of B',  
'A \$ B' means 'A is the son of B',  
'A % B' means 'A is the sister of B',  
'A / B' means 'A is the wife of B' and  
'A = B' means 'A is the brother of B'.

Which of the following means A is the daughter of K?

- $A + K / J - P = D$
- $J \% P = K + A = D$
- $K + A / P - D \% J$
- $D + K = A / P - J$

- Ans
- 1. ii
  - 2. i
  - 3. iii
  - 4. iv

- Q.2 Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

No card is a parcel.  
All cards are envelopes.  
Some envelopes are bags.

Conclusions:

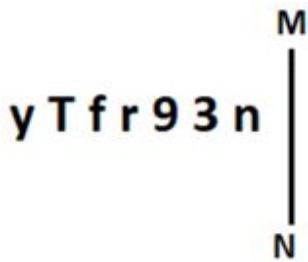
I. All envelopes can never be parcels.  
II. No card is a bag.  
III. At least some bags are postcards.

- Ans
- 1. Only I follows
  - 2. Only II and III follow
  - 3. Only II follows
  - 4. Only I and III follow

- Q.3 In a certain code language, 'what where how' is written as 'aa dd ff'; 'where there that' is written as 'dd zz pp' and 'which what here' is written as 'ff kk ll'. How is 'how' written in that language?

- Ans
- 1. kk
  - 2. aa
  - 3. ff
  - 4. zz

Q.4 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. n 9 3 1 f T y
  - 2. n ε e 1 f L y
  - 3. n ε e 1 f T y
  - 4. n ε e r f T y

Q.5 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
MEK: NVP :: GYT: TBG :: JWH:?

- Ans
- 1. QDS
  - 2. QDT
  - 3. PCR
  - 4. PCS

Q.6 Which of the following numbers will replace the question mark (?) in the given series?  
1, 3, 10, 41, ?, 1237

- Ans
- 1. 210
  - 2. 202
  - 3. 206
  - 4. 200

Q.7 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $5 - 4 \div 9 + 80 \times 10 = ?$

- Ans
- 1. 33
  - 2. 30
  - 3. 35
  - 4. 31

Q.8 Select the option that represents the letters that when placed from left to right in the blanks below will complete the letter series.

L \_ P \_ QS \_ K \_ P \_ S \_ KP \_ Q \_ L \_ \_ PQS

- Ans
- 1. KPLPQLPSKP
  - 2. KPLPLQLSPK
  - 3. KPLPQQLPSK
  - 4. PKLPQQLPSKP

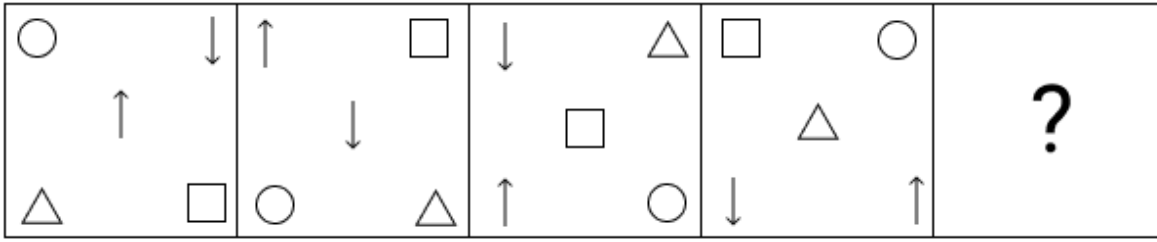
Q.9 The position of how many letters will remain unchanged if each of the letters in the word 'NIGHTMARES' is re-arranged in the English alphabetical order from left to right?

- Ans
- 1. One
  - 2. Three
  - 3. Two
  - 4. Four

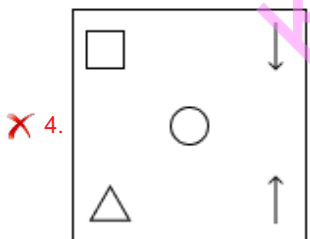
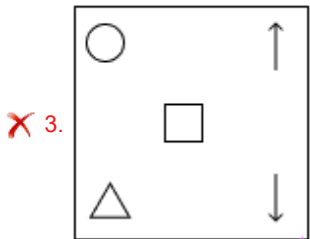
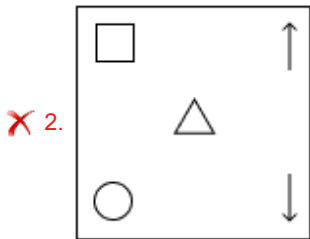
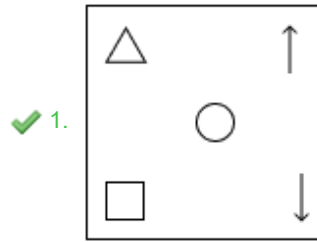
Q.10 Which of the following terms will replace the question mark (?) in the given series?  
YZUW, ?, QTQU, MQOT, INMS

- Ans
- ✓ 1. UWSV
  - ✗ 2. WUSV
  - ✗ 3. UWVS
  - ✗ 4. USWV

Q.11 Identify the option figure that when put in place of the question mark (?) will logically complete the series.



Ans



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Q.12 Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

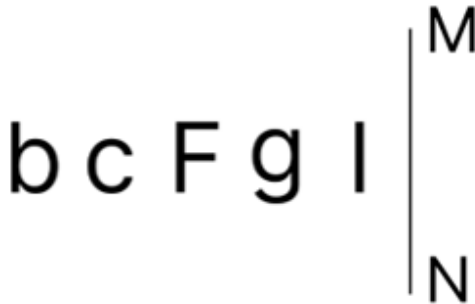
Some tears are drops.  
Some drops are streams.  
All streams are rivers.

Conclusions:

- I. All tears can never be rivers.
- II. Some drops are rivers.
- III. All tears being streams is a possibility.

- Ans
- 1. Both I and II conclusion follow
  - 2. Only conclusion I follows
  - 3. Only conclusion III follows
  - 4. Both II and III conclusion follow

Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



- Ans
- 1. | g Ǝ c d
  - 2. | g F Ɔ b
  - 3. | Ɔ Ǝ c b
  - 4. | Ɔ Ǝ Ɔ d

Q.14 In a certain code language, 'NAME' is written as 'FNBO' and 'NANO' is written as 'POBO'. How will 'NAIL' be written in that language?

- Ans
- 1. MJOB
  - 2. MJBO
  - 3. MOJB
  - 4. MOBJ

Q.15 Which of the four options will replace the question mark (?) in the following series?  
UE 88, VG 84, WI 80, XK76, ?

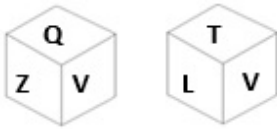
- Ans
- 1. YN73
  - 2. YM72
  - 3. ZN71
  - 4. ZM72

Q.16 19 is related to 209 following a certain logic. Following the same logic, 27 is related to 297. To which of the following is 61 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. 653
  - 2. 671
  - 3. 571
  - 4. 600

Q.17 Six letters Q, Z, V, T, L and A are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to Q.



- Ans
- 1. T
  - 2. V
  - 3. Z
  - 4. A

Q.18 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. In three of the four pairs, the same pattern is applied and hence they form a group. Select the number-pair that DOES NOT belong to this group.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 335 - 119
  - 2. 358 - 152
  - 3. 317 - 101
  - 4. 308 - 92

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Q.19 Identify the figure from the given options, which when put in place of the question mark (?), will logically complete the series.

A	B	E	A	D	E	C	D	
	E		D		C		B	?
D	C	C	B	B	A	A	E	

Ans

✗ 1.

D	B
	A
C	E

✓ 2.

B	C
	A
E	D

✗ 3.

D	B
	A
C	E

✗ 4.

E	C
	B
A	D

Q.20 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$4515 \times 5 - 431 \div 3 + 821 = ?$$

Ans ✗ 1. 1575

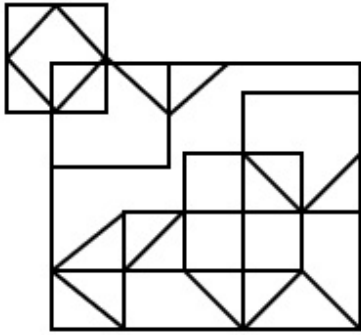
✗ 2. 1335

✓ 3. 1375

✗ 4. 1775



Q.21 How many triangles are there in the given figure?



- Ans
- 1. 21
  - 2. 20
  - 3. 19
  - 4. 18

Q.22 31 is related to 152 by certain logic. Following the same logic, 47 is related to 168. To which of the following is 66 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 180
  - 2. 190
  - 3. 185
  - 4. 187

Q.23 The question contains pairs of words that are related to each other in a certain way. Three of the following four word pairs are alike as these have the same relationship and thus form a group. Which word pair is the one that DOES NOT belong to that group?

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- 1. Triangle - 3 sides
  - 2. Pentagon - 5 sides
  - 3. Square - 4 sides
  - 4. Hexagon - 8 sides

Q.24 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

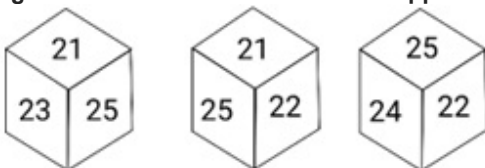
(149, 213)

(168, 232)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. (162, 222)
  - 2. (137, 211)
  - 3. (153, 217)
  - 4. (144, 198)

Q.25 Six numbers 21, 22, 23, 24, 25 and 26 are written on different faces of a dice. Three positions of this dice are shown in the figure. Find the number on the face opposite to 24.



- Ans
- 1. 22
  - 2. 21
  - 3. 26
  - 4. 25

**Q.1 Who among the following has authored the play 'Nil Darpan'?**

- Ans**
- 1. Motilal Nehru
  - 2. Chittaranjan Das
  - 3. Dinabandhu Mitra
  - 4. Sarojini Naidu

**Q.2 Which of the following awards was won by Lata Mangeshkar in the year 2001?**

- Ans**
- 1. Filmfare Lifetime Achievement Award
  - 2. Padma Vibhushan
  - 3. Dadasaheb Phalke Award
  - 4. Bharat Ratna

**Q.3 Which of the following is a correct order of basicity?**

- Ans**
- 1.  $\text{LiOH} > \text{NaOH} > \text{KOH} > \text{CsOH}$
  - 2.  $\text{LiOH} > \text{KOH} > \text{CsOH} > \text{NaOH}$
  - 3.  $\text{KOH} > \text{CsOH} > \text{NaOH} > \text{LiOH}$
  - 4.  $\text{CsOH} > \text{KOH} > \text{NaOH} > \text{LiOH}$

**Q.4 Who founded the Prarthana Samaj in Mumbai in 1867?**

- Ans**
- 1. Atmaram Pandurang
  - 2. Gopal Krishna Gokhale
  - 3. Shri Ram Bajpai
  - 4. Ram Mohan Roy

**Q.5 Who among the following formed the Bihar Provincial Kisan Sabha in 1929?**

- Ans**
- 1. Kunwar Singh
  - 2. JM Sengupta
  - 3. Jayprakash Narayan
  - 4. Swami Sahajanand Saraswati

**Q.6 In which city was the first golf club of India situated?**

- Ans**
- 1. Shimla
  - 2. Gulmarg
  - 3. Mysore
  - 4. Kolkata

**Q.7 Which article has a similar provision to that of Article 32 and deals with writ jurisdiction?**

- Ans**
- 1. Article 227
  - 2. Article 228
  - 3. Article 225
  - 4. Article 226

**Q.8 Mahendrarvarman I was the ruler of which of the following dynasties?**

- Ans**
- 1. Pandya
  - 2. Chola
  - 3. Chalukya
  - 4. Pallava

**Q.9** What challenge does foreign investment often face in India?

- Ans**
- 1. Excessive foreign competition
  - 2. Inconsistent regulatory environment
  - 3. Lack of skilled labour
  - 4. Lack of consumer base

**Q.10** Who is Union Minister of State (Independent Charge) for Science and Technology as of July 2023?

- Ans**
- 1. Ramesh Pokhriyal
  - 2. Dharmendra Pradhan
  - 3. Ashwini Vaishnaw
  - 4. Jitendra Singh

**Q.11** Lathmar Holi is primarily celebrated in the state of:

- Ans**
- 1. Karnataka
  - 2. Arunachal Pradesh
  - 3. Uttar Pradesh
  - 4. Himachal Pradesh

**Q.12** Which of the following is NOT a condition for the President's office in India?

- Ans**
- 1. He shall not be entitled, without payment of rent, to use his official residence.
  - 2. He shall not be a member of either House of the Parliament.
  - 3. The allowances shall not be diminished during his term of office.
  - 4. He shall not hold any office of profit.

**Q.13** Which Indian among the following has his name in Time Magazine's list of '100 most influential people of 2021'?

- Ans**
- 1. Neeraj Chopra
  - 2. Narendra Modi
  - 3. Virat Kohli
  - 4. Amit Shah

**Q.14** When the analysis of population density is done by calculating it through net cultivated area, then the measure is termed as:

- Ans**
- 1. Agricultural density
  - 2. Physiological density
  - 3. Gross density
  - 4. Net density

**Q.15** Mohan Veena player, Pandit Vishwa Mohan Bhatt won the \_\_\_\_\_ Award in the year 1994.

- Ans**
- 1. Sangita Kalanidhi
  - 2. Oscar
  - 3. Grammy
  - 4. Sangeet Natak Akademi

**Q.16** Which plateaus are very fertile because they are rich in black soil that is very good for farming?

- Ans**
- 1. African plateau
  - 2. Ethiopian plateau
  - 3. Katanga plateau
  - 4. Deccan lava plateau

Q.17 Which of the following pairs is INCORRECT regarding the grade of organisation and its example?

- Ans
- 1. Cellular grade organisation - Sycon
  - 2. Protoplasmic grade organisation - Paramecium
  - 3. Cell-tissue grade organisation - Jellyfish
  - 4. Tissue-organ grade organisation - Euplectella

Q.18 Who is the Chief Minister of Tamil Nadu as of July 2023?

- Ans
- 1. Pinarayi Vijayan
  - 2. M Yedurappa
  - 3. KN Nehru
  - 4. MK Stalin

Q.19 Which of the following states is the biggest producer of Pulses?

- Ans
- 1. Madhya Pradesh
  - 2. Haryana
  - 3. Punjab
  - 4. Bihar

Q.20 In which year was Project Tiger launched in India?

- Ans
- 1. 1985
  - 2. 1973
  - 3. 1972
  - 4. 1970

Q.21 The head office of Board of Control for Cricket in India (BCCI) is located in \_\_\_\_\_.

- Ans
- 1. Mumbai
  - 2. Kolkata
  - 3. New Delhi
  - 4. Chennai

Q.22 Which of the following decomposition reactions is NOT a redox reaction?

- Ans
- 1. Decomposition of dihydrogen monoxide
  - 2. Decomposition of sodium hydride
  - 3. Decomposition of potassium chlorate
  - 4. Decomposition of calcium carbonate

Q.23 Which of the following statements best defines the monoecious?

- Ans
- 1. A flower with both androecium and gynoecium
  - 2. A flower with ditheous
  - 3. A flower with gynoecium only
  - 4. A flower with androecium only

Q.24 \_\_\_\_\_ is an industry association and self-regulatory organisation (SRO) whose primary objective is to work towards the robust development of the microfinance sector.

- Ans
- 1. Self-help Group Association
  - 2. Microfinance Institutions Network
  - 3. Microfinance and Investments Regulatory Authority
  - 4. NABARD

Q.25 Details about Sudarshana lake is given in a rock inscription at Girnar (Junagarh), which was composed to record the achievements of the Shaka ruler \_\_\_\_\_.

- Ans
- 1. Rudrasimha III
  - 2. Rudradaman I
  - 3. Chashtana
  - 4. Maues

Section : Quantitative Aptitude

Q.1 Which of the following statements is sufficient to conclude that two triangles are congruent?

- Ans
- 1. These have two equal sides and the same perimeter.
  - 2. These have the same area and the same base.
  - 3. One side and one angle of both triangles are equal.
  - 4. These have the same base and the same height.

Q.2 The average marks (out of 100) of boys and girls in an examination are 75 and 80, respectively. If the average marks of all the students in that examination are 78. Find the ratio of the number of boys to the number of girls.

- Ans
- 1. 2 : 3
  - 2. 3 : 4
  - 3. 1 : 3
  - 4. 1 : 2

Q.3 If the sum of two sides of an equilateral triangle is 16 cm, then find the third side.

- Ans
- 1. 4 cm
  - 2. 16 cm
  - 3. Cannot be found
  - 4. 8 cm

Q.4 The following table shows the total candidates appeared and number of candidates present, in different exam centres – P, Q and R.

Study the table and answer the question that follows.

Year	P		Q		R	
	Total	Present	Total	Present	Total	Present
2016	45	42	56	45	55	50
2017	50	45	75	55	45	40
2018	64	60	65	45	65	55
2019	80	69	84	72	70	62
2020	55	44	80	66	90	85

'Total' denotes total candidates applied for the centre, 'Present' denotes the candidates appeared. In which year was the number of absentees the second highest in total of all centres?

- Ans
- 1. 2018
  - 2. 2017
  - 3. 2020
  - 4. 2019

Q.5 Which of the following can be the value of 'k' so that the number 217924k is divisible by 6?

- Ans
- 1. 4
  - 2. 6
  - 3. 2
  - 4. 0

Q.6

Read the given information and answer the question that follows.

The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

The number in the brackets give the maximum marks in each subject.

Student	Subject (Max. Marks)					
	Maths	Chemistry	Physics	Geography	History	Computer Science
	(150)	(130)	(120)	(100)	(60)	(40)
Ayush	90	50	90	60	70	80
Aman	100	80	80	40	80	70
Sajal	90	60	70	70	90	70
Rohit	80	65	80	80	60	60
Muskan	80	65	85	95	50	90
Tanvi	70	75	65	85	40	60
Tarun	65	35	50	77	80	80

If someone secured all the highest scores that have been obtained by some student or the other in the six subjects as given in the table above, what would be the exact overall percentage score obtained by that student?

Ans

✓ 1.  $91\frac{1}{6}\%$

✗ 2. 95.16%

✗ 3. 91%

✗ 4.  $90\frac{5}{6}\%$

Q.7

The value of  $\sin^2 30 - \sin^2 40 + \sin^2 45 - \sin^2 55 - \sin^2 35 + \sin^2 45 - \sin^2 50 + \sin^2 60$  is:

Ans

✗ 1. 1

✗ 2. 2

✗ 3. 4

✓ 4. 0

Q.8

The value of  $\cos^2 29^\circ + \cos^2 61^\circ$  is:

Ans

✗ 1.  $\frac{\sqrt{3}}{2}$

✗ 2. 2

✓ 3. 1

✗ 4. 0

Q.9

An article is marked at ₹550. If it is sold at a discount of 40%, then the selling price becomes 10% more than its cost price. What is the cost price (in ₹)?

Ans

✗ 1. 220

✗ 2. 330

✓ 3. 300

✗ 4. 200

- Q.10 The given table shows the percentage of marks obtained by three students in three different subjects in an institute. (maximum marks are given in brackets)

Subject Student	History (175)	Geography (200)	Botany (125)
Ram	54	87	71
Mohan	51	79	78
Shyam	75	49	76

If in order to pass the exam, a minimum of 105 marks are needed in History, how many students pass in the exam?

- Ans
- 1.3
  - 2.1
  - 3.0
  - 4.2

- Q.11 Fill pipe P is 21 times faster than fill pipe Q. If Q can fill a cistern in 110 minutes, find the time it takes to fill the cistern when both fill pipes are opened together.

- Ans
- 1.5 minutes
  - 2.4 minutes
  - 3.3 minutes
  - 4.6 minutes

- Q.12 The radii of the two cones are in the ratio of 2 : 5 and their volumes are in the ratio of 3 : 5. What is the ratio of their heights?

- Ans
- 1. 15 : 4
  - 2. 11 : 15
  - 3. 13 : 11
  - 4. 4 : 11

- Q.13 Simplify

$$\frac{x^3 + 15x^2 + 75x + 125}{x^2 - 25} (x - 5).$$

- Ans
- 1.  $x^2 + 25$
  - 2.  $x^2 + 5x + 25$
  - 3.  $x^2 + 10x + 25$
  - 4.  $x^2 - 25$

- Q.14 Which of the following can be the value of k, if  $\frac{(88 \div 8 \times k - 3 \times 3)}{(6^2 - 7 \times 5 + k^2)} = 1$ ?

- Ans
- 1. 1,10
  - 2. 4,7
  - 3. 3,10
  - 4. 2,7

Q.15 Let O be the centre of the circle and AB and CD are two parallel chords on the same side of the radius. OP is perpendicular to AB and OQ is perpendicular to CD. If AB = 10 cm, CD = 24 cm and PQ = 7 cm, then the diameter (in cm) of the circle is equal to:

- Ans
- 1. 26
  - 2. 13
  - 3. 12
  - 4. 24

Q.16 If  $\operatorname{cosec}\theta = 5/3$ , then evaluate  $(\sec^2\theta - 1) \times \cot^2\theta \times (1 + \cot^2\theta)$ .

- Ans
- 1.  $\frac{25}{16}$
  - 2.  $\frac{9}{16}$
  - 3.  $\frac{25}{9}$
  - 4.  $\frac{4}{5}$

Q.17 The distance between the centres of two circles of radii 22 cm and 10 cm is 37 cm. If the points of contact of a direct common tangent to these circles are M and Q, then find the length of the line segment MQ.

- Ans
- 1. 35 cm
  - 2. 39 cm
  - 3. 29 cm
  - 4. 25 cm

Q.18 In a circular race of 840 m, A and B start running in the same direction at the same time from the same point at the speeds of 6 m/s and 12 m/s, respectively. After how much time will they meet next?

- Ans
- 1. 140 s
  - 2. 20 s
  - 3. 40 s
  - 4. 70 s

Q.19 R pays ₹100 to P with ₹5, ₹2 and ₹1 coins. The total number of coins used for paying are 40. What is the number of coins of denomination ₹5 in the payment?

- Ans
- 1. 16
  - 2. 17
  - 3. 18
  - 4. 13

Q.20 In an election between two candidates,  $y\%$  of the voters did not vote. 10% of the votes cast were declared invalid, while all the valid votes were cast in favour of either of the two candidates. The candidate who got 59.375% of the valid votes cast was declared elected by 2484 votes. If the number of people eligible to vote in that election was 16,000, what is the value of  $y$ ?

- Ans
- 1. 7.2
  - 2. 8.4
  - 3. 8
  - 4. 7.5

Q.21 Mohan borrows a sum of ₹4,22,092 at the rate of 20% per annum simple interest. At the end of the first year, he repays ₹21,679 towards return of principal amount borrowed. If Mohan clears all pending dues at the end of the second year, including interest payment that accrued during the first year, how much does he pay (in ₹) at the end of the second year?

- Ans
- 1. 556367
  - 2. 558380
  - 3. 561347
  - 4. 564914



Q.22 Simplify  $\frac{(x^2-9)}{x+3}$

- Ans
- 1.  $x + 3$
  - 2.  $x - 3$
  - 3.  $\sqrt{x^2 - 9}$
  - 4.  $x - 9$

Q.23 Rajesh, in his printing press, got an order to print some books, out of which he completed  $\frac{17}{27}$  of the order in 34 days. In how many days did he complete the entire order of printing?

- Ans
- 1. 60
  - 2. 20
  - 3. 54
  - 4. 56

Q.24 A grocer professes to sell rice at the cost price, but uses a fake weight of 870 g for 1 kg. Find his profit percentage (correct to two decimal places).

- Ans
- 1. 15.11%
  - 2. 14.94%
  - 3. 18.21%
  - 4. 11.11%

Q.25 The following table shows the marks (out of 100) obtained by five students in five different subjects.

Student/Subject	Maths	Physics	Chemistry	English	Physical Education
Tarun	65	80	75	85	90
Rohit	69	76	80	88	94
Mohit	73	84	77	90	95
Shobhit	76	85	76	86	78
Sumit	90	88	78	82	68

Who obtained 79% marks in all the subjects taken together?

- Ans
- 1. Sumit
  - 2. Mohit
  - 3. Rohit
  - 4. Tarun

Section : English Comprehension

Q.1 Select the option that expresses the given sentence in passive voice.

Ishika saw the tiger in the forest.

- Ans
- 1. The tiger saw by Ishika in the forest.
  - 2. The tiger was seen by the forest in Ishika.
  - 3. The tiger was seen by Ishika in the forest.
  - 4. The tiger sees Ishika in the forest.

Q.2 Select the most appropriate synonym of the given word.  
Innuendo

- Ans
- 1. Prose
  - 2. Crude
  - 3. Ragged
  - 4. Insinuation

Q.3 Select the most appropriate option that can substitute the underlined segment in the given sentence.

'Spy Family' is a graphic novel that is a narrative work in which the story is conveyed to the reader using uninterrupted art in a traditional comics format.

- Ans
- 1. sequential art in a traditional
  - 2. existential art in a traditional
  - 3. sedimental art in a traditional
  - 4. longitudinal art in a traditional

Q.4 Select the most appropriate synonym of the given word.  
Fatal

- Ans
- 1. Deadly
  - 2. Additional
  - 3. Jovial
  - 4. Easy

Q.5 The following sentence has been divided into four segments. Identify the segment that contains an error.  
Mr. Abhilash and his family / have received / no informations / about the incident.

- Ans
- 1. have received
  - 2. no informations
  - 3. about the incident.
  - 4. Mr. Abhilash and his family

Q.6 Select the option that expresses the opposite meaning of the underlined word.  
The explosive used is of my own formulation, and I can vouch for its efficiency.

- Ans
- 1. Maintain
  - 2. Certify
  - 3. Invalidate
  - 4. Witness

Q.7 Select the most appropriate option to fill in the blank.

Vinod had a \_\_\_\_\_ escape in the car accident.

- Ans
- 1. comfortable
  - 2. full
  - 3. narrow
  - 4. wide

Q.8 Select the INCORRECTLY spelt word.

- Ans
- 1. Embarrass
  - 2. Connoisseur
  - 3. Relevant
  - 4. Bureaucracy

**Q.9** Select the most appropriate synonym of the word in bold.  
We'd better watch our step and not give him any excuse to harass us further.

- Ans**
- 1. betray
  - 2. relish
  - 3. soothe
  - 4. intimidate

**Q.10** Select the option that can be used as a one-word substitute for the given phrase.

A short interesting story about a real person or event

- Ans**
- 1. Poem
  - 2. Sketch
  - 3. Anecdote
  - 4. Narrative

**Q.11** Select the option that can be used as a one-word substitute for the underlined group of words.

She is proficient in speaking many languages.

- Ans**
- 1. Monolithic
  - 2. Multilingual
  - 3. Heterolinguistic
  - 4. Bilingual

**Q.12** Select the most appropriate meaning of the given idiom.  
To have bigger fish to fry

- Ans**
- 1. To have an interest in cooking
  - 2. To know different kinds of fishing techniques
  - 3. To take calculated risks
  - 4. To have bigger things to take care of than the menial task at hand

**Q.13** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
My brother performed / extremely good / in the class test / held yesterday.

- Ans**
- 1. held yesterday
  - 2. in the class test
  - 3. My brother performed
  - 4. extremely good

**Q.14** Select the most appropriate synonym of the given word.

Toxic

- Ans**
- 1. Laudatory
  - 2. Lanky
  - 3. Lethal
  - 4. Licit

**Q.15** Select the option that can be used as a one-word substitute for the given group of words.  
A person who likes to argue about anything

- Ans**
- 1. Reticent
  - 2. Coward
  - 3. Veracious
  - 4. Contentious

**Q.16** Select the most appropriate option to substitute the underlined segment in the given sentence.  
She has been studying for two o'clock .

- Ans**
- 1. study from two o'clock
  - 2. studying since two o'clock
  - 3. study for two o'clock
  - 4. studying two o'clock

**Q.17** In the following sentence, four words are underlined out of which one word is misspelt. Identify the **INCORRECTLY** spelt word.  
After the recapture (A) of Tololing and the adjacent features, evacting (B) the enemy from this well-fortified (C) position became a priority.(D)

- Ans**
- 1. B
  - 2. D
  - 3. A
  - 4. C

**Q.18** Select the option that expresses the given sentence in active voice.  
Lovely tunes are composed by Domnica.

- Ans**
- 1. Domnica composed lovely tunes.
  - 2. Domnica composes tunes lovely.
  - 3. Domnica will compose lovely tunes.
  - 4. Domnica composes lovely tunes.

**Q.19** Select the word which means the same as the group of words given.

Unit of weight for precious stones

- Ans**
- 1. Pure
  - 2. Reliable
  - 3. Carat
  - 4. Accurate

**Q.20** Select the most appropriate synonym to replace the underlined word in the given sentence.

No altruistic act is truly sincere.

- Ans**
- 1. philanthropic
  - 2. phantasmal
  - 3. phenomenal
  - 4. phonotypical

### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

There is a saying that coming events cast their shadows before. (1)\_\_\_\_\_, it is not universally true. Something can happen within a second, and one may not (2)\_\_\_\_\_ it. (3)\_\_\_\_\_, some instances show that predictions based on certain signs have gone wrong. People generally say that natural calamities can be predicted by observing the animals. But what if animals are suffering from some disease and don't show any signs before the event appears? They may fail to make peculiar sounds or actions about the events which are going to take place. (4)\_\_\_\_\_, some unnatural calamities that are likely to appear may forecast their shadows by some bad omens. (5)\_\_\_\_\_, we should not completely cancel out the possibilities that animals can sense certain unnatural happenings.

### SubQuestion No : 21

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. Moreover
  - 2. Therefore
  - 3. Furthermore
  - 4. However

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

There is a saying that coming events cast their shadows before. (1)\_\_\_\_\_, it is not universally true. Something can happen within a second, and one may not (2)\_\_\_\_\_ it. (3)\_\_\_\_\_, some instances show that predictions based on certain signs have gone wrong. People generally say that natural calamities can be predicted by observing the animals. But what if animals are suffering from some disease and don't show any signs before the event appears? They may fail to make peculiar sounds or actions about the events which are going to take place. (4)\_\_\_\_\_, some unnatural calamities that are likely to appear may forecast their shadows by some bad omens. (5)\_\_\_\_\_, we should not completely cancel out the possibilities that animals can sense certain unnatural happenings.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. legalise
  - 2. foresee
  - 3. rescind
  - 4. affect

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

There is a saying that coming events cast their shadows before. (1)\_\_\_\_\_, it is not universally true. Something can happen within a second, and one may not (2)\_\_\_\_\_ it. (3)\_\_\_\_\_, some instances show that predictions based on certain signs have gone wrong. People generally say that natural calamities can be predicted by observing the animals. But what if animals are suffering from some disease and don't show any signs before the event appears? They may fail to make peculiar sounds or actions about the events which are going to take place. (4)\_\_\_\_\_, some unnatural calamities that are likely to appear may forecast their shadows by some bad omens. (5)\_\_\_\_\_, we should not completely cancel out the possibilities that animals can sense certain unnatural happenings.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. Therefore
  - 2. Moreover
  - 3. Nevertheless
  - 4. However

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

There is a saying that coming events cast their shadows before. (1)\_\_\_\_\_, it is not universally true. Something can happen within a second, and one may not (2)\_\_\_\_\_ it. (3)\_\_\_\_\_, some instances show that predictions based on certain signs have gone wrong. People generally say that natural calamities can be predicted by observing the animals. But what if animals are suffering from some disease and don't show any signs before the event appears? They may fail to make peculiar sounds or actions about the events which are going to take place. (4)\_\_\_\_\_, some unnatural calamities that are likely to appear may forecast their shadows by some bad omens. (5)\_\_\_\_\_, we should not completely cancel out the possibilities that animals can sense certain unnatural happenings.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. Besides
  - 2. Secondly
  - 3. Therefore
  - 4. Despite

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

There is a saying that coming events cast their shadows before. (1)\_\_\_\_\_, it is not universally true. Something can happen within a second, and one may not (2)\_\_\_\_\_ it. (3)\_\_\_\_\_, some instances show that predictions based on certain signs have gone wrong. People generally say that natural calamities can be predicted by observing the animals. But what if animals are suffering from some disease and don't show any signs before the event appears? They may fail to make peculiar sounds or actions about the events which are going to take place. (4)\_\_\_\_\_, some unnatural calamities that are likely to appear may forecast their shadows by some bad omens. (5)\_\_\_\_\_, we should not completely cancel out the possibilities that animals can sense certain unnatural happenings.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. However
  - 2. Nevertheless
  - 3. Moreover
  - 4. Therefore

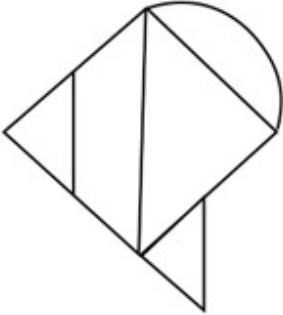
KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	09/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

Q.1 How many triangles are there in the given figure?



- Ans
- 1. 5
  - 2. 3
  - 3. 4
  - 4. 6

Q.2 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$4 \div 6 + 91 \times 7 - 5 = ?$$

- Ans
- 1. 21
  - 2. 16
  - 3. 12
  - 4. 17

Q.3 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

- Ans
- 1. EJ - OT
  - 2. PF - OI
  - 3. KP - UZ
  - 4. CH - MR

**Q.4** In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

All fans are brown.

Some brown are chairs.

Some chairs are plastic.

**Conclusions:**

I. Some brown are fans.

II. Some chairs are brown.

III. No chair is plastic.

- Ans**
- 1. Only conclusions II and III follow.
  - 2. None of the conclusions follows.
  - 3. Only conclusions I and II follow.
  - 4. Only conclusion III follows.

**Q.5** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$1604 \times 4 - 525 \div 5 + 73 = ?$$

- Ans**
- 1. 2395
  - 2. 2935
  - 3. 2953
  - 4. 2539

**Q.6** The position of how many letters will change, if each of the letters in the word 'SYSTEM' is arranged in the English alphabetical order?

- Ans**
- 1. Five
  - 2. Six
  - 3. Three
  - 4. Four

**Q.7** Select the number from among the given options that can replace the question mark (?) in the following series.  
99, 123, 150, 180, 213, ?

- Ans**
- 1. 259
  - 2. 258
  - 3. 248
  - 4. 249

**Q.8** Select the option that can replace the question mark (?) in the following series.  
VO39, TM35, RK31, PI27, ?

- Ans**
- 1. OH24
  - 2. NG23
  - 3. MH24
  - 4. MG22



**Q.9** Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion(s) logically follow(s) from the given statements

**Statements:**

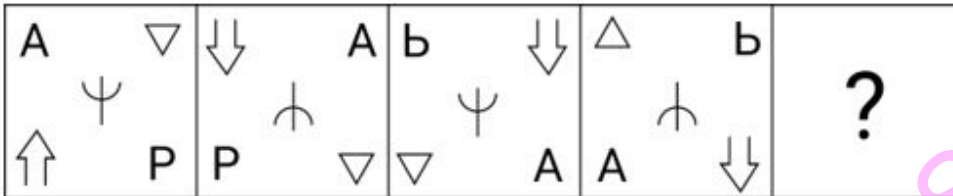
No river is a mountain.  
Some rivers are animals.  
Some birds are mountains.

**Conclusions:**

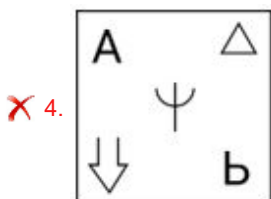
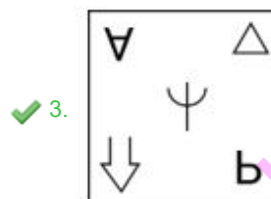
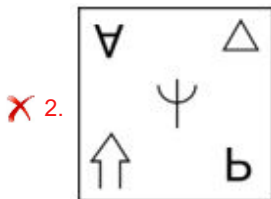
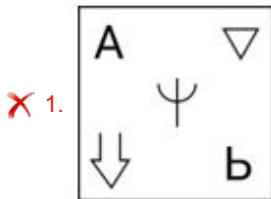
I: No animal is a mountain.  
II: No river is a bird.

- Ans**
- 1. Only conclusion (II) follows
  - 2. Neither conclusion (I) nor (II) follows
  - 3. Both conclusions (I) and (II) follow
  - 4. Only conclusion (I) follows

**Q.10** Select the figure from among the given options that can replace the question mark (?) and logically complete the series.



**Ans**



**Q.11** In a certain code language, 'let it go' is coded as 'vc nt ap' and 'this is it' is coded as 'mq vc lh'. What is the code for 'it' in that language?

- Ans**
- 1. mq
  - 2. vc
  - 3. lh
  - 4. nt

**Q.12** Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)  
Egypt : Nile

- Ans**
- 1. Russia : Mississippi
  - 2. South Korea : Mekong
  - 3. Brazil : Colorado
  - 4. Myanmar : Irrawaddy

**Q.13** In a certain code language, 'It's your life' is written as 'Ao Bo Co' and 'It's your food' is written as 'Ba Co Bo'. How will 'food' be written in that language?

- Ans**
- 1. Bo
  - 2. Co
  - 3. Ba
  - 4. Ao

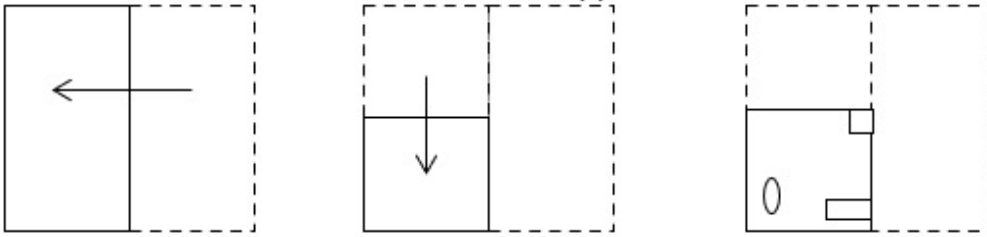
**Q.14** Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

N \_ B A N A \_ A \_ A N A N A B \_ N A N A B A \_ A N A

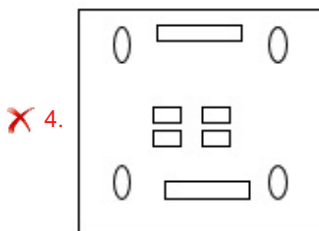
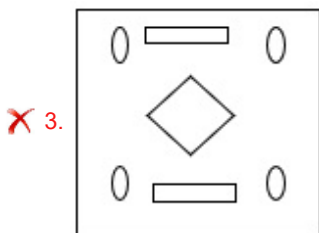
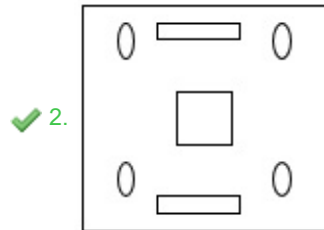
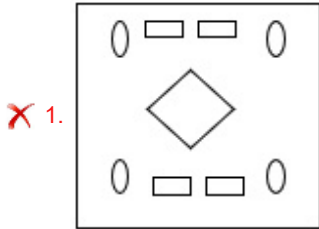
- Ans**
- 1. ANANB
  - 2. NANAB
  - 3. ANABN
  - 4. ANBAN

KD JOB UPDATES

Q.15 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans



Q.16 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



Ans



**Q.17** Select the letter-cluster from among the given options that can replace the question mark (?) to complete the given series.  
BVTO, DTVM, ?, HPZI, JNBG

- Ans**
- 1. RXFK
  - 2. RFXK
  - 3. FKXR
  - 4. FRXK

**Q.18** Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(18, 378, 7)  
(14, 210, 5)

- Ans**
- 1. (15, 405, 9)
  - 2. (23, 230, 5)
  - 3. (17, 204, 6)
  - 4. (17, 272, 8)

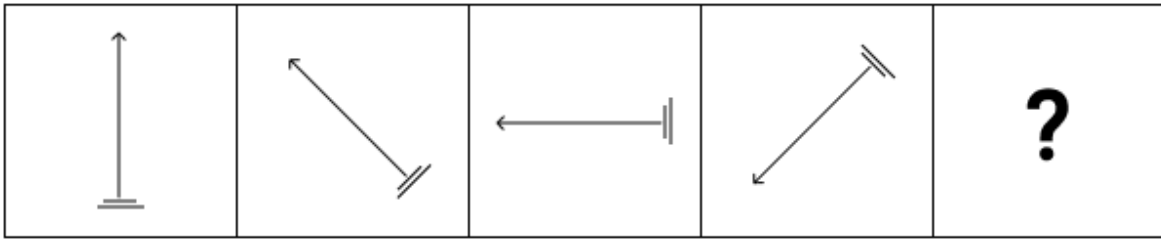
**Q.19** Select the triad in which the numbers are related in the same way as are the numbers of the following triads.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(2, 3, 17)  
(5, 2, 21)

- Ans**
- 1. (3, 4, 23)
  - 2. (5, 6, 72)
  - 3. (1, 4, 17)
  - 4. (2, 5, 42)

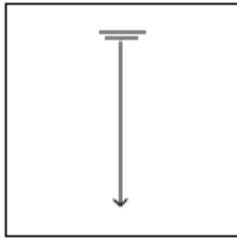
KD JOB UPDATES

Q.20 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



Ans

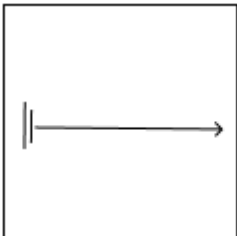
✓ 1.



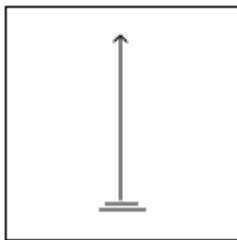
✗ 2.



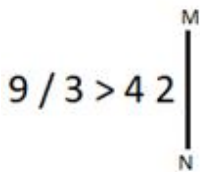
✗ 3.



✗ 4.



Q.21 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans

✓ 1.  $e \setminus 3 < 4 \text{ } \epsilon$

✗ 2.  $9 / 3 > 4 \text{ } \epsilon$

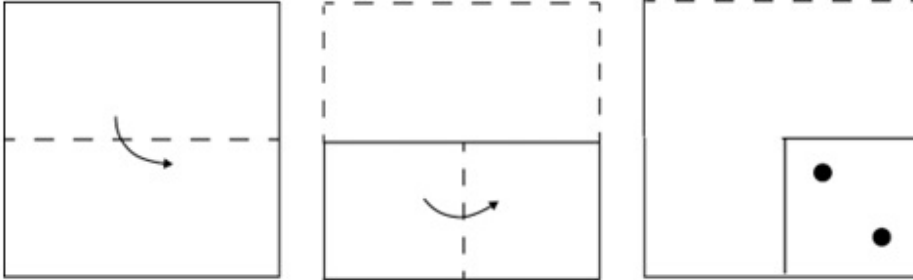
✗ 3.  $e \setminus / 3 \text{ } \epsilon$

✗ 4.  $e \setminus 3 > 4 \text{ } 2$

Q.22 The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.  
 (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

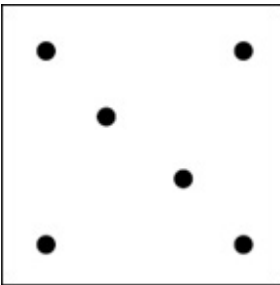
- Ans
- ✗ 1. 12 : 39
  - ✗ 2. 15 : 48
  - ✓ 3. 11 : 35
  - ✗ 4. 13 : 42

Q.23 A square sheet of paper is folded along the dotted lines successively in the directions shown and is then punched in the last. How would the paper look when unfolded?

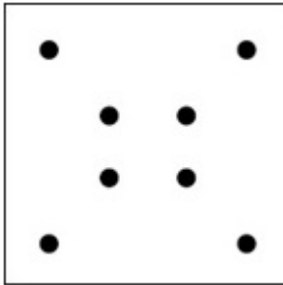


Ans

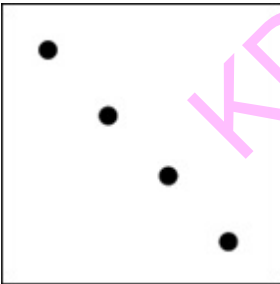
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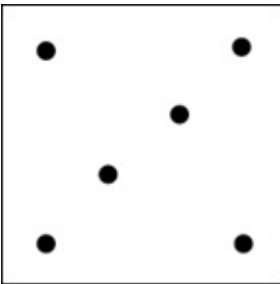
✓ 2.



✗ 3.



✗ 4.



KD JOB UPDATES

- Q.24** Select the triad in which the numbers are related in the same way as are the numbers of the given triads. (16, 33, 67), (19, 39, 79)  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
- Ans**  1. (22, 45, 91)  
 2. (21, 45, 90)  
 3. (18, 36, 80)  
 4. (14, 27, 53)

- Q.25** In a certain code language,  
R + T means 'R is the sister of T'.  
R – T means 'R is the father of T'.  
R \* T means 'R is the wife of T'.  
R ÷ T means 'R is the mother of T'.  
Based on the above, how is F related to C if 'A + B – C ÷ D \* E – F ÷ G'?

- Ans**  1. Daughter's daughter  
 2. Wife  
 3. Daughter  
 4. Mother

Section : **General Awareness**

- Q.1** Which condition, also known as icterus, causes a yellowing of your skin and the whites of your eyes?

- Ans**  1. Ichthyosis  
 2. Jaundice  
 3. Eczema  
 4. Pemphigus

- Q.2** Under the leadership of which of the following revolutionaries was Chittagong Armoury Raid conducted?

- Ans**  1. Rash Behari Bose  
 2. Badal Gupta  
 3. Hemu Kalani  
 4. Surya Sen

- Q.3** In which of the following states is Govindji Nartanalaya located?

- Ans**  1. Manipur  
 2. Assam  
 3. Nagaland  
 4. Tripura

- Q.4** Which of the following celebrations is dedicated to Sun God and his wife Usha to thank them for sustaining life on earth and for granting wishes?

- Ans**  1. Madai Festival  
 2. Chhath Puja  
 3. Vishwakarma Puja  
 4. Sorath Sabha

- Q.5** Which of the following inscriptions of Rudradaman happened to be the first royal inscription of early India composed in chaste Sanskrit?

- Ans**  1. Prayag  
 2. Girnar  
 3. Chirand  
 4. Mehrauli

**Q.6** The first southern campaign of Alauddin Khilji in 1307-08 AD was led to which of the following regions?

- Ans**
- 1. Devagiri
  - 2. Warangal
  - 3. Dwar Samudra
  - 4. Madura

**Q.7** What is the IUPAC name of tertiarybutyl alcohol?

- Ans**
- 1. 2-Methylpropan-2-ol
  - 2. 1-propylpropan-3-ol
  - 3. 1-Methylpropan-3-ol
  - 4. 1-ethylpropan-3-ol

**Q.8** What is the relationship between interest rate and demand for money?

- Ans**
- 1. No relationship exists
  - 2. Inverse
  - 3. Direct
  - 4. Proportionate

**Q.9** When electricity is passed through water, what kind of chemical reaction occurs?

- Ans**
- 1. Decomposition
  - 2. Displacement
  - 3. Double displacement
  - 4. Combination

**Q.10** Which music-composer duo was honoured with the National Lata Mangeshkar Award for the year 2020?

- Ans**
- 1. Sachin–Jigar
  - 2. Jatin-Lalit
  - 3. Salim–Sulaiman
  - 4. Anand-Milind

**Q.11** Which of the following can be represented as a functional unit of nature?

- Ans**
- 1. Vehicles
  - 2. Ecosystem
  - 3. Humans
  - 4. Plants

**Q.12** In which state of India is Kund or Tanka used for water harvesting?

- Ans**
- 1. Rajasthan
  - 2. Andhra Pradesh
  - 3. Uttar Pradesh
  - 4. Punjab

**Q.13** The inaugural match of the Women Premier League 2023 cricket was played in which of the following venues?

- Ans**
- 1. Delhi
  - 2. Mumbai
  - 3. Chennai
  - 4. Kolkata



**Q.14** Which of the following is NOT correct about Directive Principles of State Policy?

- Ans**
- 1. They ensure social and economic development.
  - 2. They are justiciable in nature.
  - 3. They provide guidelines for the governance of the country.
  - 4. They are morally binding on the government.

**Q.15** At what latitude does the easterly jet stream blow over peninsular India during the summer months?

- Ans**
- 1. 24°N
  - 2. 30°N
  - 3. 14°N
  - 4. 28°N

**Q.16** According to Census of India 2011, in rural India, which state has the maximum female workforce participation rate?

- Ans**
- 1. Arunachal Pradesh
  - 2. Uttar Pradesh
  - 3. Himachal Pradesh
  - 4. Andhra Pradesh

**Q.17** In 2021, in which of the following states did the Prime Minister lay the foundation stone for the Raja Mahendra Pratap Singh State University?

- Ans**
- 1. Uttar Pradesh
  - 2. Gujarat
  - 3. Himachal Pradesh
  - 4. Nagaland

**Q.18** When was a Madrasa opened in Kolkata to promote the study of Arabic, Persian and Islamic law?

- Ans**
- 1. 1772 C.E.
  - 2. 1783 C.E.
  - 3. 1781 C.E.
  - 4. 1774 C.E.

**Q.19** Which Article of the Constitution explains that the executive power of every state shall be so exercised as not to impede or prejudice the exercise of the executive power of the Union, and the executive power of the union shall extend to the giving of such directions to a state as may appear to the Government of India to be necessary for that purpose?

- Ans**
- 1. Article 261
  - 2. Article 247
  - 3. Article 257
  - 4. Article 123

**Q.20** Which of the following statements correctly defines the green revolution?

- Ans**
- 1. It is a new strategy in agriculture to produce food grains, especially wheat and rice.
  - 2. It is a new strategy to increase the share of the forest.
  - 3. It is a new strategy to use green colour for all purposes.
  - 4. It is a new strategy to use only herbal products.

**Q.21** In the year 1952, who among the following lent his voice for the film 'Amar Bhupali', which was being produced in two languages simultaneously and he sang in both Bengali and Marathi ?

- Ans**
- 1. Kishore Kumar
  - 2. Hemanta Mukherjee
  - 3. Debabrata Biswas
  - 4. Manna Dey

Q.22 In which part of India does the hot wind 'Loo' blow?

- Ans
- 1. West and Southwestern
  - 2. North and Northwestern
  - 3. East and Northeastern
  - 4. South and Southwestern

Q.23 The government of which of the following states created a draft policy in 2022 for senior citizens on the basis of article 41, which aims to form a directorate for the welfare of senior citizens?

- Ans
- 1. Karnataka
  - 2. Telangana
  - 3. Tamil Nadu
  - 4. Kerala

Q.24 When was the High Court and Supreme Court Judges (Salaries and Conditions of Service) Amendment Bill, 2021 introduced in Lok Sabha?

- Ans
- 1. 27 September 2021
  - 2. 30 November 2021
  - 3. 29 March 2021
  - 4. 28 April 2021

Q.25 At which Olympics did Gagan Narang win a bronze medal?

- Ans
- 1. London 2012
  - 2. Rio 2016
  - 3. Athens 2004
  - 4. Beijing 2008

Section : Quantitative Aptitude

Q.1 Madhav purchased an item for ₹42,000 and sold it at a loss of 20%. With that amount, he purchased another item and sold it at a gain of 30%. What is the overall gain (in ₹)?

- Ans
- 1. 6720
  - 2. 4200
  - 3. 1680
  - 4. 2520

Q.2 What is the volume (in  $\text{cm}^3$ ) of a cylinder if the radius of the cylinder is 8 cm and the height is 14 cm? (Take  $\pi = \frac{22}{7}$ )

- Ans
- 1. 2686
  - 2. 2816
  - 3. 2784
  - 4. 2456

Q.3 Seven years ago, Prachi was four times as old as her daughter was at that time. Four years from now, Prachi will be two-and-a-half times as old as her daughter would then be. Find the sum of the present ages (in years) of Prachi and her daughter.

- Ans
- 1. 69
  - 2. 77
  - 3. 49
  - 4. 72

Q.4 From a circle with the radius of 15.75 cm, a sector with the arc length of 11 cm is cut off. Find the area (in  $\text{cm}^2$ ) of this sector.

Ans  1. 86.525

2. 86.625

3. 86.875

4. 86.125

Q.5 Simplify

$$\frac{(8.3)^2 + (9.2)^2 + (6.1)^2 - 3 \times 8.3 \times 9.2 \times 6.1}{(8.3)^2 + (9.2)^2 + (6.1)^2 - 8.3 \times 9.2 - 9.2 \times 6.1 - 6.1 \times 8.3}$$

Ans  1. 30.2

2. 23.6

3. 28.7

4. 25.5

Q.6 What is the value of  $\sec(t)$ , if  $\tan(t) = \frac{1}{3}$ ?

Ans  1.  $\frac{2\sqrt{2}}{3}$

2.  $\frac{\sqrt{10}}{9}$

3.  $\frac{\sqrt{10}}{3}$

4.  $\frac{\sqrt{3}}{3}$

Q.7 The points P and S are on the same side of the line segment QR, such that  $\angle PQR = 90^\circ$ ,  $\angle SRQ = 90^\circ$  and  $PQ = SR$ . Select the correct statement.

Ans  1.  $\Delta PQR \cong \Delta SRQ$  by RHS

2.  $\Delta PQR \cong \Delta SQR$  by SAS

3.  $\Delta PQR \cong \Delta SQR$  by RHS

4.  $\Delta PQR \cong \Delta SRQ$  by SAS

Q.8 The marked price of an article is 26% more than its cost price. If a discount of 32% is given, what will be the loss percentage?

Ans  1. 18.64%

2. 15.25%

3. 12.26%

4. 14.32%

Q.9 Simplify the following.  $\frac{\sin^3 A - \cos^3 A}{\sin A - \cos A}$ , where A is an acute angle.

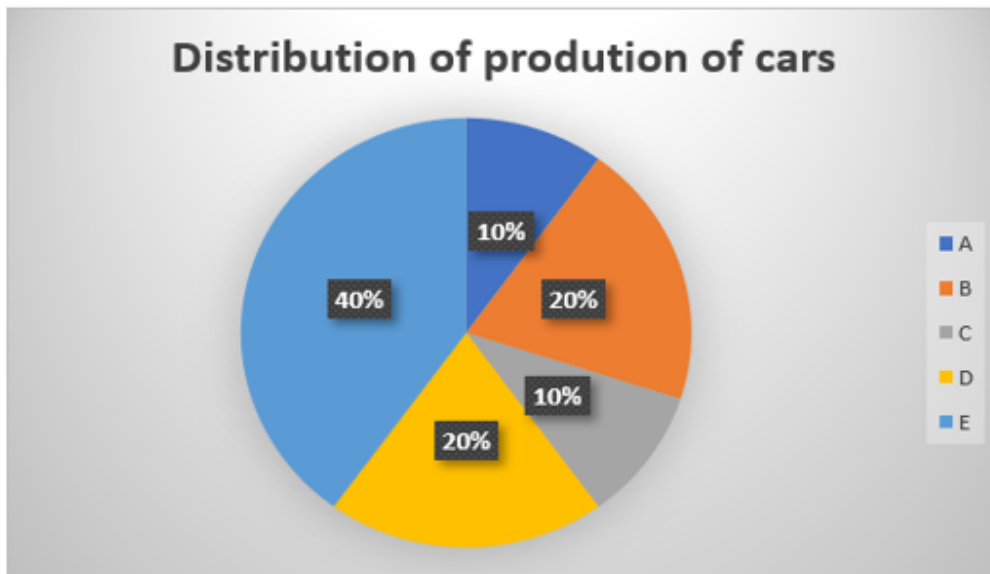
Ans  1.  $1 + \sin A \cos A$

2.  $1 - 3 \sin A$

3.  $3 \cos A - 1$

4.  $\sin A + \cos A$

Q.10 The given chart shows the production of different types of cars in the year 2021. Study the given chart and answer the question that follows.



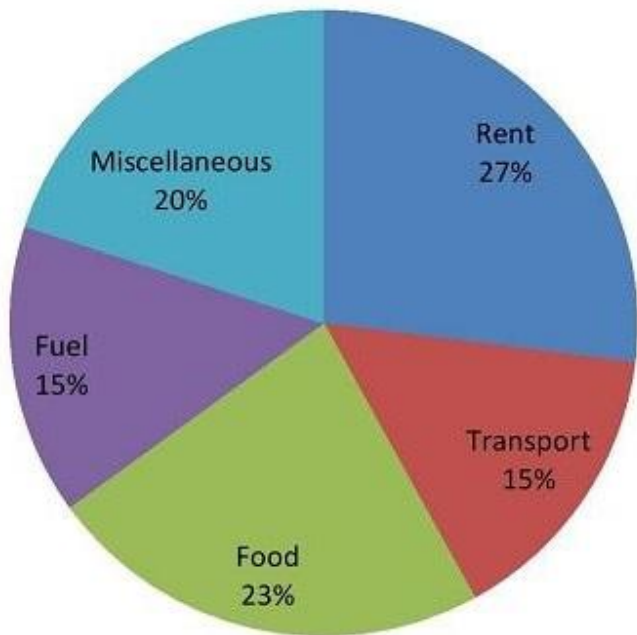
If the total production in the year 2021 was 2,00,00,000, then what will be the central angle of the sector representing the production of type D cars in 2021?

- Ans
- 1.  $50^\circ$
  - 2.  $36^\circ$
  - 3.  $42^\circ$
  - 4.  $72^\circ$

Q.11 A right-angled isosceles triangle has an area of 50 square units. Its hypotenuse is (in units):

- Ans
- 1.  $10\sqrt{3}$
  - 2.  $5\sqrt{5}$
  - 3.  $10\sqrt{2}$
  - 4.  $5\sqrt{2}$

Q.12 The pie chart given below shows the expenditure (in percentage) of Aditya. The monthly income of Aditya is ₹54,000.



How much does he spend (in ₹) on Food?

- Ans
- 1. 12,240
  - 2. 13,420
  - 3. 11,240
  - 4. 12,420

Q.13 A person earns ₹16,000 per month and spends 80% of his income and saves the remaining amount. If his income increases by 20% and expenditure by 10%, find the percentage of increase in his savings.

- Ans
- 1. 140%
  - 2. 90%
  - 3. 120%
  - 4. 60%

Q.14 Without doing the actual division, find the remainder when 28735429 is divided by 9.

- Ans
- 1. 4
  - 2. 2
  - 3. 8
  - 4. 9

Q.15 The angles of triangle are such that one is average of other two, then the angles are:

1)  $\frac{\pi}{6}, \frac{\pi}{3}, \frac{\pi}{2}$       2)  $\frac{\pi}{3}, \frac{\pi}{3}, \frac{\pi}{2}$       3)  $\frac{\pi}{6}, \frac{\pi}{3}, \frac{\pi}{4}$       4)  $\frac{\pi}{2}, \frac{\pi}{2}, \frac{\pi}{3}$

- Ans
- 1. 4
  - 2. 3
  - 3. 2
  - 4. 1

Q.16 Let C be a circle with centre O and P be an external point to C. Let PA and PB be two tangents to C with A and B being the points of tangency, respectively. If PA and PB are inclined to each other at an angle of  $60^\circ$ , then find  $\angle POA$ .

- Ans
- 1.  $40^\circ$
  - 2.  $60^\circ$
  - 3.  $80^\circ$
  - 4.  $30^\circ$

Q.17 At present, A is thrice as old as B. C is 5 years elder than B. The sum of the ages of A, B, C is 75 years. The ratio of the age of B five years ago to the age of A three years from now is:

- Ans
- 1. 2 : 3
  - 2. 1 : 4
  - 3. 4 : 7
  - 4. 1 : 5

Q.18 The monthly wages (in ₹) of three mess workers, Rahul, Sunil and Vipin, of a boy's hostel for three months are given in the following table. Study the table carefully and answer the question given below.

Mess workers/Month	October	November	December
Rahul	10800	11500	12000
Sunil	10000	10500	11500
Vipin	10400	11600	12200

In November, the wages of Sunil is what percentage of the wages of Rahul? (Correct up to two decimal places.)

- Ans
- 1. 90.23%
  - 2. 89.30%
  - 3. 88.23%
  - 4. 91.30%

Q.19 If  $x$  varies inversely as  $y$  and  $x = 2$  when  $y = 6$ , then the value of  $y$  when  $x = 3$  is:

- Ans
- 1. 2
  - 2. 3
  - 3. 4
  - 4. 6

Q.20 If a sum of ₹5,000 is taken at a simple rate of interest of 15% per annum for 3 years and another sum of ₹8,000 is taken at a simple interest of 12% per annum for 4 years, the positive difference of the interests paid is:

- Ans
- 1. ₹1,643
  - 2. ₹1,590
  - 3. ₹1,286
  - 4. ₹1,378

Q.21 Varun and Sandeep started for a car race from the same point, in the same direction and at the same time on a circular track of length 1635 m with the speeds of 90 km/h and 108 km/h, respectively. After how much time (in s) will they meet again for the first time?

- Ans
- 1. 324
  - 2. 325
  - 3. 327
  - 4. 326

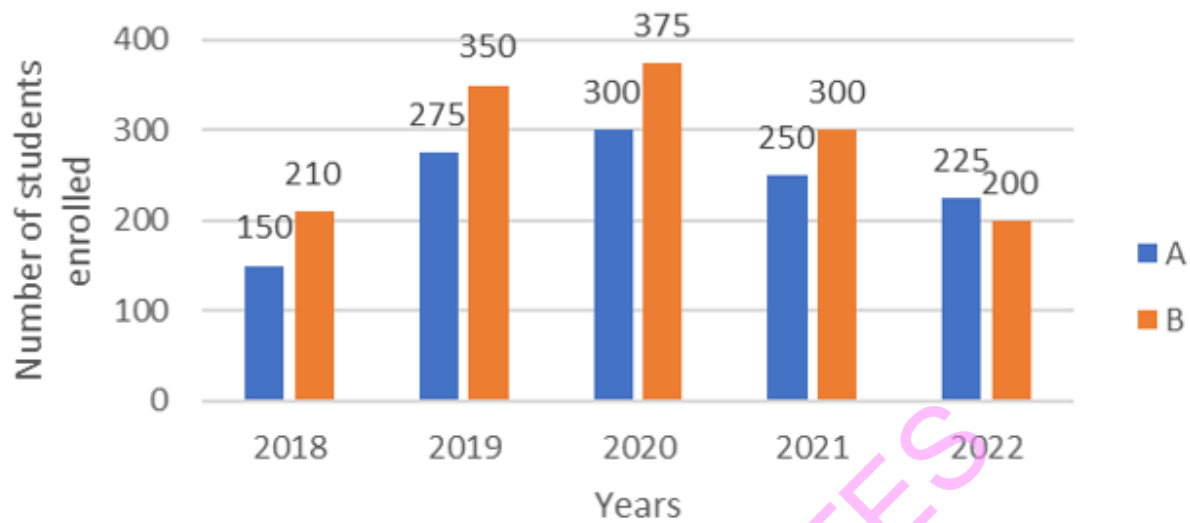
Q.22 Pipes M, N and S can fill a tank in 25, 50 and 100 minutes, respectively. Initially, pipes N and S are kept open for 10 minutes, and then pipe N is shut while pipe M is opened. Pipe S is closed 15 minutes before the tank overflows. How much time (in minutes) will it take to fill the tank if the three pipes work in this pattern?

- Ans
- 1. 30
  - 2. 33
  - 3. 42
  - 4. 27

Q.23 Simplify the following:  
 $21 - 4.9 \div 7 + 3.9 \times 0.4 + 0.9$

- Ans
- 1. 18.23
  - 2. 24.12
  - 3. 26.32
  - 4. 22.76

Q.24 The given bar graph shows the number of students enrolled in Institutes A and B during 5 years (2018 to 2022).



What is the ratio of the total students enrolled in Institute B in 2019, 2020 and 2022 to that of the total students enrolled in Institute A in 2018, 2020 and 2021?

- Ans
- 1. 37 : 28
  - 2. 11 : 28
  - 3. 28 : 11
  - 4. 28 : 37

Q.25 The average temperature of a city for the first sixteen days of January is  $22^{\circ}\text{C}$ , and the average temperature for the last sixteen days of the same month is  $26^{\circ}\text{C}$ . If the average temperature for the entire month is  $24^{\circ}\text{C}$ , what is the temperature on the sixteenth day?

- Ans
- 1.  $24^{\circ}\text{C}$
  - 2.  $25^{\circ}\text{C}$
  - 3.  $23^{\circ}\text{C}$
  - 4.  $22^{\circ}\text{C}$

Section : English Comprehension

Q.1 Select the most appropriate synonym of the given word.  
Abundant

- Ans
- 1. Ample
  - 2. Scarce
  - 3. Barren
  - 4. Difficult

Q.2 Select the option that can be used as a one-word substitute for the given group of words.  
One who does not show response to good or bad

- Ans
- 1. Stoic
  - 2. Sceptic
  - 3. Cynic
  - 4. Phobic

Q.3 Select the most appropriate ANTONYM of the underlined word.

If you want to be a good detective, it helps to have an inquisitive nature.

- Ans
- 1. Comprehensive
  - 2. Itemised
  - 3. Intrusive
  - 4. Disinterested

Q.4 Select the option that expresses the given sentence in active voice.  
The meal was not prepared by us.

- Ans
- 1. We had not prepare the meal.
  - 2. We did not prepare the meal.
  - 3. We did not preparing the meal.
  - 4. We did prepare the meal.

Q.5 Select the option that expresses the given sentence in active voice.  
The homework must be done by you.

- Ans
- 1. You should have done the homework.
  - 2. You do the homework.
  - 3. You will do the homework.
  - 4. You must do the homework.

Q.6 Select the correctly spelled sentence.

- Ans
- 1. I will definitely attend the conference.
  - 2. I will defintly attend the conference.
  - 3. I will definetely attend the conference.
  - 4. I will definatly attend the conference.

Q.7 Select the most appropriate synonym of the underlined word.

I would love to organise the farewell party at my house.

- Ans
- 1. Derange
  - 2. Disorder
  - 3. Arrange
  - 4. Confuse

Q.8 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

(O) as it was the last one of the evening  
(P) the city bus was overcrowded  
(Q) and this gave an opportunity  
(R) to the pickpockets  
(S) to try their skill

- Ans
- 1. SRPOQ
  - 2. PSORQ
  - 3. POQRS
  - 4. SROPQ

Q.9 Parts of the following sentence have been given as options. Select the option that contains an error.  
Every students in the hostel decided to travel to Delhi to witness the Republic Day parade.

- Ans
- 1. Republic Day Parade.
  - 2. to witness the
  - 3. decided to travel to Delhi
  - 4. Every students in the hostel



Q.10 Select the most appropriate meaning of the given idiom.

Break a leg

- Ans
- 1. Give advice on maintaining physical health.
  - 2. Encourage someone to engage in risky activities.
  - 3. Suggest taking a short break during work.
  - 4. Wish someone good luck before a performance.

Q.11 Given below are four jumbled sentences. Select the option that gives their correct logical sequence.

- A. These can turn around to track stars with the rotation of Earth.
- B. Observatories are places to study place.
- C. They are mostly built on the mountain tops.
- D. Telescopes are placed in the dome-shaped roof of the building.

- Ans
- 1. BCDA
  - 2. DCBA
  - 3. ACDB
  - 4. CBDA

Q.12 Select the INCORRECTLY spelt word.

- Ans
- 1. Allocation
  - 2. Abismal
  - 3. Allegation
  - 4. Aversion

Q.13 Select the most appropriate option to substitute the underlined segment in the given sentence.

Raju's job as a clerk seemed to be bad at first because of the low salary, but resulted in something good happening later because it saved him from being unemployed.

- Ans
- 1. a boon in disguise
  - 2. a blessing in disguise
  - 3. a jolt in disguise
  - 4. a gift in disguise

Q.14 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- (a) the use of animal research
- (b) throughout the past century
- (c) and it continues to be used to understand many diseases
- (d) has been of considerable importance
- (e) in the field of scientific and medical advancements

- Ans
- 1. aecdb
  - 2. ecdba
  - 3. adebc
  - 4. edcba

Q.15 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Spreading awareness about the rights of the consumers and the relief open to them in case they did not get their money's worth of goods and service has rightly been identified as the first priority.

- Ans
- 1. were unable to get their money's worth
  - 2. No substitution
  - 3. did not getting their money's worth
  - 4. will not get their money's worth

**Q.16** Select the most appropriate option to substitute the underlined word in the given sentence.  
Pollution levels have increased so largely that they are almost killing us.

- Ans**
- 1. highly
  - 2. slowly
  - 3. primarily
  - 4. chiefly

**Q.17** Identify the most appropriate antonym of the given word.

**Scary**

- Ans**
- 1. bright
  - 2. Pristine
  - 3. awful
  - 4. comforting

**Q.18** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
By this time next year / I will had graduated from college / and starting my first job / in the field of marketing.

- Ans**
- 1. in the field of marketing
  - 2. and starting my first job
  - 3. By this time next year
  - 4. I will had graduated from college

**Q.19** Select the most appropriate ANTONYM of the word in bold.

**Elisabeth stood at the piano, which did nothing to allay his anxiety.**

- Ans**
- 1. mitigate
  - 2. simplify
  - 3. mollify
  - 4. aggravate

**Q.20** Select the most appropriate synonym of the given word.

**Berserk**

- Ans**
- 1. Demented
  - 2. Absurd
  - 3. Stubborn
  - 4. Lazy

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

From the beginning (1)\_\_\_\_\_ the eighteenth century, the ladies of European cities covered (2)\_\_\_\_\_ faces in layers of paint and powder. This particular fashion was largely brought (3) \_\_\_\_\_ by the urgent need to disguise the ravages of smallpox, (4)\_\_\_\_\_ left their faces pitted and scarred. During this same period, the 'beauty spot' was introduced to cover (5) \_\_\_\_\_ a facial defect.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. in
  - 2. on
  - 3. of
  - 4. about

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

From the beginning (1)\_\_\_\_\_ the eighteenth century, the ladies of European cities covered (2)\_\_\_\_\_ faces in layers of paint and powder. This particular fashion was largely brought (3)\_\_\_\_\_ by the urgent need to disguise the ravages of smallpox, (4)\_\_\_\_\_ left their faces pitted and scarred. During this same period, the 'beauty spot' was introduced to cover (5) \_\_\_\_\_ a facial defect.

**SubQuestion No : 22****Q.22** Select the most appropriate option to fill in blank number 2.

- Ans
- 1. their
  - 2. there
  - 3. them
  - 4. they're

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

From the beginning (1)\_\_\_\_\_ the eighteenth century, the ladies of European cities covered (2)\_\_\_\_\_ faces in layers of paint and powder. This particular fashion was largely brought (3)\_\_\_\_\_ by the urgent need to disguise the ravages of smallpox, (4)\_\_\_\_\_ left their faces pitted and scarred. During this same period, the 'beauty spot' was introduced to cover (5) \_\_\_\_\_ a facial defect.

**SubQuestion No : 23****Q.23** Select the most appropriate option to fill in blank number 3.

- Ans
- 1. within
  - 2. around
  - 3. to
  - 4. about

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

From the beginning (1)\_\_\_\_\_ the eighteenth century, the ladies of European cities covered (2)\_\_\_\_\_ faces in layers of paint and powder. This particular fashion was largely brought (3)\_\_\_\_\_ by the urgent need to disguise the ravages of smallpox, (4)\_\_\_\_\_ left their faces pitted and scarred. During this same period, the 'beauty spot' was introduced to cover (5) \_\_\_\_\_ a facial defect.

**SubQuestion No : 24****Q.24** Select the most appropriate option to fill in blank number 4.

- Ans
- 1. that
  - 2. which
  - 3. when
  - 4. who

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

From the beginning (1)\_\_\_\_\_ the eighteenth century, the ladies of European cities covered (2)\_\_\_\_\_ faces in layers of paint and powder. This particular fashion was largely brought (3)\_\_\_\_\_ by the urgent need to disguise the ravages of smallpox, (4)\_\_\_\_\_ left their faces pitted and scarred. During this same period, the 'beauty spot' was introduced to cover (5) \_\_\_\_\_ a facial defect.

**SubQuestion No : 25****Q.25** Select the most appropriate option to fill in blank number 5.

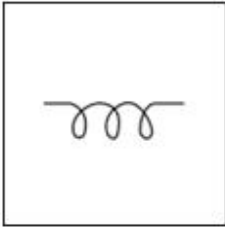
- Ans
- 1. on
  - 2. to
  - 3. for
  - 4. up

## Combined Graduate Level Examination 2024 Tier I

Exam Date	09/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

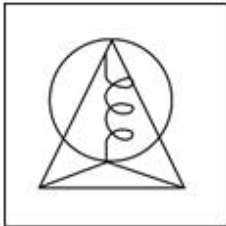
Q.1 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



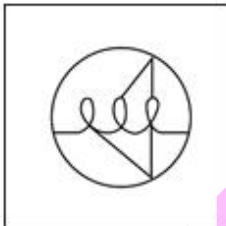
(X)

Ans

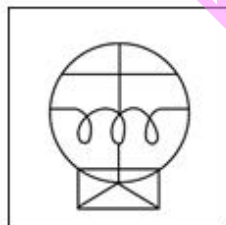
✗ 1.



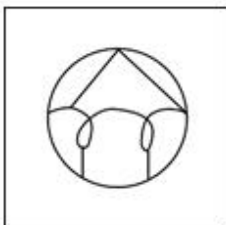
✗ 2.



✓ 3.



✗ 4.



**Q.2** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.  
Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans**
- 1. BEHI
  - 2. TWYZ
  - 3. PSUV
  - 4. FIKL

**Q.3** In a certain code language, 'SILK' is written as 'TIML' and 'INSECT' is written as 'IOTEDU'. How will 'CHANGE' be written in that language?

- Ans**
- 1. DOIHAE
  - 2. DEIOHA
  - 3. DEIHAO
  - 4. DIAOHE

**Q.4** Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
(19, 456, 6)  
(16, 320, 5)

- Ans**
- 1. (18, 378, 7)
  - 2. (14, 210, 5)
  - 3. (21, 504, 8)
  - 4. (18, 648, 9)

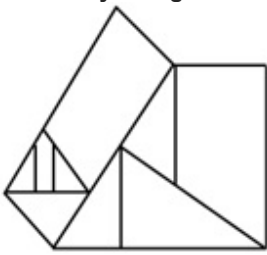
**Q.5** The position of how many letters will remain unchanged if each of the letter in the word 'JANITOR' is arranged in English alphabetical order?

- Ans**
- 1. Three
  - 2. Two
  - 3. One
  - 4. Zero

KD JOB UPDATES

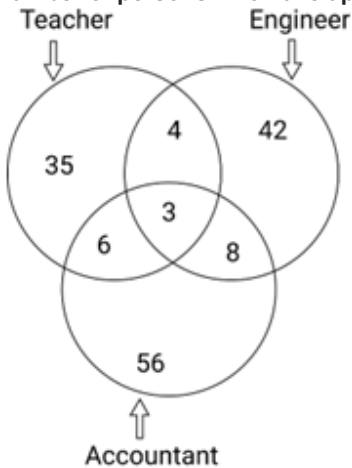


Q.10 How many triangles are there in the given figure?



- Ans
- 1. 6
  - 2. 8
  - 3. 4
  - 4. 5

Q.11 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of persons who have applied for different posts.



What is the total number of persons who have applied for more than one post?

- Ans
- 1. 21
  - 2. 113
  - 3. 15
  - 4. 18

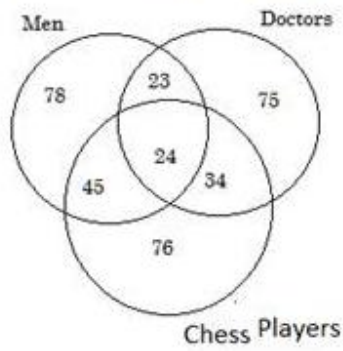
Q.12 Three of the following numbers are alike in a certain way and one is different. Pick the odd one out. (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1.  $36 - 84$
  - 2.  $72 - 168$
  - 3.  $66 - 154$
  - 4.  $33 - 72$

Q.13 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
CWE:ZFX ::PYT:MDI :: KIL:?

- Ans
- 1. PRO
  - 2. RTQ
  - 3. STQ
  - 4. PQO

Q.14 The following Venn diagram shows Men's profession as Doctors and Chess Players.



How many men are doctors?

- Ans
- 1. 47
  - 2. 34
  - 3. 24
  - 4. 23

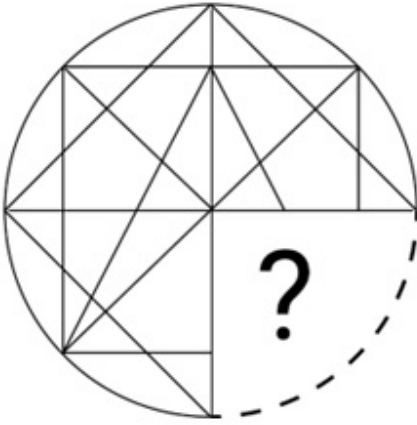
Q.15 Which of the following terms will replace the question mark (?) in the given series?  
MFT, NIS, PLQ, SON, WRJ, ?

- Ans
- 1. RUE
  - 2. BUE
  - 3. BVD
  - 4. BUP

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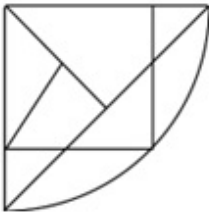


Q.16 Select the option that will replace the question mark (?) in the figure given below to complete the pattern.

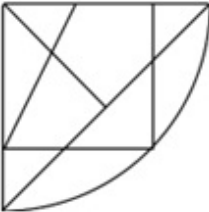


Ans

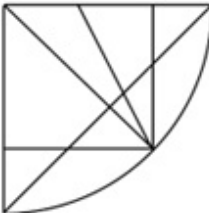
✗ 1.



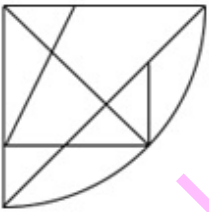
✗ 2.



✓ 3.



✗ 4.



Q.17 Select the number from the given options to complete the series.

35, 38, 43, 50, 59, \_\_\_

Ans ✗ 1. 62

✗ 2. 68

✗ 3. 78

✓ 4. 70

Q.18 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(34, 47, 62)

(119, 142, 167)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

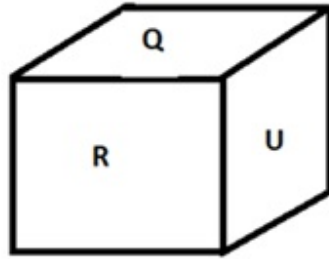
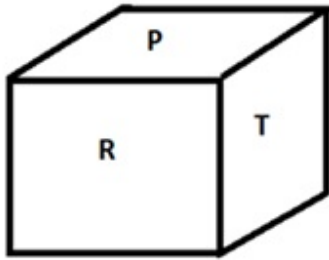
Ans ✗ 1. (27, 38, 51)

✗ 2. (48, 65, 82)

✗ 3. (64, 78, 99)

✓ 4. (79, 98, 119)

Q.19 Six letters P, Q, R, S, T and U are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to R.



- Ans
- 1. T
  - 2. Q
  - 3. U
  - 4. S

Q.20 Which two numbers (not digits) should be interchanged to make the given equation correct?  
 $24 \div 3 - 4 \times 2 + 6 \times 5 + 12 = 50$

- Ans
- 1. 5 and 4
  - 2. 4 and 3
  - 3. 24 and 12
  - 4. 3 and 2

Q.21 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $321 - 371 \div 22 + 216 \times 6 = ?$

- Ans
- 1. 7848
  - 2. 7884
  - 3. 8747
  - 4. 8447

Q.22 In a certain code language,  
 A + B means 'A is the son of B',  
 A - B means 'A is the sister of B',  
 A × B means 'A is the brother of B' and  
 A ÷ B means 'A is the mother of B'.  
 Based on the above, how is T related to P if 'P ÷ Q × R - M + T'?

- Ans
- 1. Son
  - 2. Brother
  - 3. Father
  - 4. Husband

Q.23 Six letters A, M, R, S, Y and Q are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to S.



- Ans
- 1. Q
  - 2. M
  - 3. Y
  - 4. A

Q.24 In a certain code language, 'SET' is coded as '37' and 'MIX' is coded as '35'. How will 'WAR' be coded in that language?

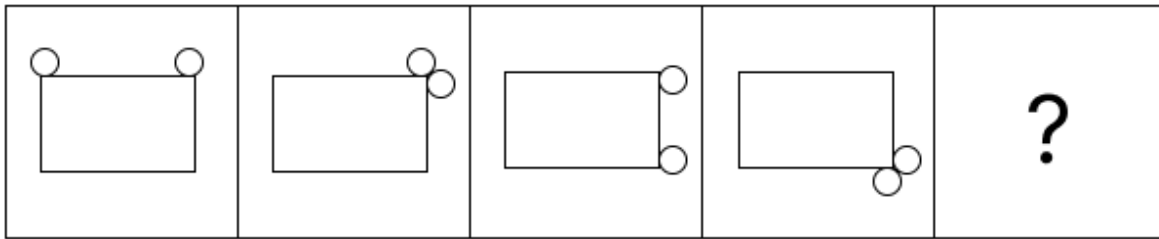
Ans  1. 39

2. 21

3. 32

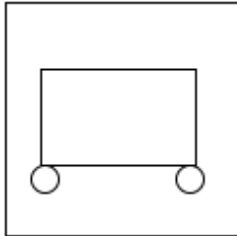
4. 29

Q.25 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?

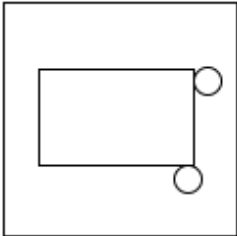


Ans

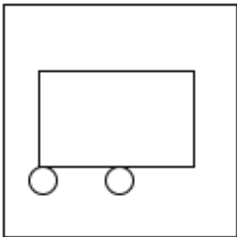
1.



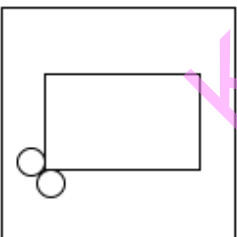
2.



3.



4.



KD JOB UPDATES

Section : General Awareness

Q.1 Who among the following devised the system of 'Subsidiary Alliance'?

Ans  1. Lord Wellesley

2. Lord Canning

3. Lord William Bentinck

4. Lord Dalhousie

Q.2 At which Olympics was Kho-Kho featured in an exhibition in the main stadium?

Ans  1. 1936

2. 1932

3. 2008

4. 2016

**Q.3 Which of the following statements is INCORRECT?**

- Ans**
- 1. Fats and oils get reduced over time and smell bad.
  - 2. Fats and oils are oxidised, they become rancid.
  - 3. Antioxidants are added to foods containing fats and oil to prevent oxidation.
  - 4. Chips manufacturers usually flush bags of chips with Nitrogen to prevent the chips from getting rancid.

**Q.4 Hot local wind that flows over north India in summer is known as:**

- Ans**
- 1. Loo
  - 2. Chinook
  - 3. Mango showers
  - 4. Purga

**Q.5 'Nuakhai' is the state festival of:**

- Ans**
- 1. Meghalaya
  - 2. Odisha
  - 3. Tamil Nadu
  - 4. Bihar

**Q.6 Which Article of the Indian Constitution prohibits providing of any religious instruction in the educational institutions maintained by the State?**

- Ans**
- 1. Article 29
  - 2. Article 28
  - 3. Article 30
  - 4. Article 31

**Q.7 As per the definition of Census of India, a 'marginal worker' is a person who works for:**

- Ans**
- 1. less than 183 days (or six months) in a year
  - 2. more than 183 days (or six months) in a year
  - 3. eight months in a year
  - 4. 83 days in a year

**Q.8 In which year was the 'Naye Bharat Ke Sapne' campaign launched by Meta and the Ministry of Women?**

- Ans**
- 1. 2022
  - 2. 2023
  - 3. 2020
  - 4. 2021

**Q.9 Under which of the following Acts was the power to rule India, transferred from the English East India Company to the British Crown?**

- Ans**
- 1. Charter Act of 1833
  - 2. Regulating Act 1773
  - 3. Pitt's India Act 1784
  - 4. Government of India Act 1858

**Q.10 Which of the following is an inactivated (killed) polio vaccine developed in 1952?**

- Ans**
- 1. Salk vaccine
  - 2. Imvanex vaccine
  - 3. HDCV vaccine
  - 4. TAB vaccine

**Q.11** Which of the following statements is correct?.

- Ans**
- 1. The five-year plan focuses mostly on private intervention in the economy.
  - 2. The five-year plan always focused on the growth of the tertiary sector.
  - 3. The five-year plan permits long-term intervention by the government in the economy.
  - 4. A five-year plan always stresses market-oriented activities.

**Q.12** What is the length of Indian Railways network, according to Railway Yearbook 2019-20?

- Ans**
- 1. 67,956 km
  - 2. 1,604 km
  - 3. 63,950 km
  - 4. 2,402 km

**Q.13** In Pradhan Mantri Gramin Awaas yojana, the cost of unit assistance is shared between Central and State Governments in the ratio \_\_\_\_\_ in plain areas.

- Ans**
- 1. 60 : 40
  - 2. 40 : 60
  - 3. 90 : 10
  - 4. 30 : 70

**Q.14** Silappathikaram (the Jewelled Anklet), the earliest epic poem in Tamil was written in the 5<sup>th</sup> - 6<sup>th</sup> Century CE by \_\_\_\_\_.

- Ans**
- 1. Tolkappiyar
  - 2. Ilango Adigal
  - 3. Sittalai Sattanar
  - 4. Tirumalisai Alwar

**Q.15** Which of the following is the largest crustal plate on Earth with an area of over 103,000,000 km<sup>2</sup>?

- Ans**
- 1. South American plate
  - 2. African plate
  - 3. Eurasian plate
  - 4. Pacific plate

**Q.16** Which of the following personalities is a Padma Shri awardee folk singer from the state of Uttar Pradesh?

- Ans**
- 1. Ila Arun
  - 2. Ajita Srivastava
  - 3. Gurmeet Bawa
  - 4. Teejan Bai

**Q.17** Which of the following countries won the first men's Asian Hockey Championship trophy?

- Ans**
- 1. Japan
  - 2. China
  - 3. India
  - 4. Pakistan

**Q.18** Which of the following goods needs further transformation in the economic process?

- Ans**
- 1. Consumer durable goods
  - 2. Finished goods
  - 3. Intermediate goods
  - 4. Capital goods

Q.19 In which of the following states is the Nrityagram, an Odissi dance institution, located?

- Ans
- 1. Kerala
  - 2. Karnataka
  - 3. Tamil Nadu
  - 4. Maharashtra

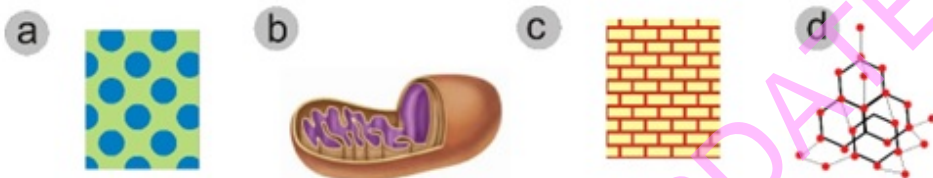
Q.20 Who among the following was the youngest instrumentalist to be awarded the Padma Bhushan, the third highest civilian award of India in 2002?

- Ans
- 1. Pandit Ravi Shankar
  - 2. Ustad Zakir Hussain
  - 3. Pandit Bhimsen Joshi
  - 4. Ustad Bismillah Khan

Q.21 Who was the revenue minister during the reign of Akbar?

- Ans
- 1. Todar Mal
  - 2. Abdul Rahim
  - 3. Mulla Do-Piyaza
  - 4. Tansen

Q.22 Which of the following illustrations shows the mitochondrion's structural details?



- Ans
- 1. d
  - 2. b
  - 3. c
  - 4. a

Q.23 Which of the following is a straight-chain alkyl carboxylic acid with the chemical formula  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CO}_2\text{H}$ ?

- Ans
- 1. Methanoic acid
  - 2. Propionic acid
  - 3. Ethanoic acid
  - 4. Butyric acid

Q.24 Article 77 of the Indian Constitution deals with the \_\_\_\_\_.

- Ans
- 1. term of office of the Vice-President
  - 2. Vice-President of India
  - 3. oath of office by the Vice-President
  - 4. conduct of business of the Government of India

Q.25 The Muslim Women (Protection of Rights on Marriage) Act, 2019 deals with subsistence allowance in which of the following Sections?

- Ans
- 1. Section 5
  - 2. Section 6
  - 3. Section 7
  - 4. Section 4

**Q.1** A stock portfolio consists of four stocks. Stock A represents 20% of the portfolio and has a return of 6%. Stock B represents 30% of the portfolio and has a return of 8%. Stock C represents 20% of the portfolio and has a return of 4%. Stock D represents the remaining 30% of the portfolio and has a negative-return of 5%. What is the average return of the portfolio?

- Ans**
- 1. 2.9%
  - 2. 2.6%
  - 3. 3.2%
  - 4. 3.4%

**Q.2** Simplify:

$$13 - [7 - (4 + 7) - \{7 - (7 - 4 + 7)\} + 14]$$

- Ans**
- 1. 13
  - 2. 9
  - 3. 0
  - 4. 26

**Q.3** The given table shows the number of pages printed by four printers in three days.

Days	Printers			
	L	M	N	O
Friday	10,230	9580	7560	9600
Saturday	8540	11,230	6580	7890
Sunday	9235	8264	7546	10,325

If the total number of pages printed by all the given printers together on Wednesday was 15% more than the total number of pages printed by all the given printers together on Saturday, what was the total number of pages printed by all the given printers together on Wednesday?

- Ans**
- 1. 38,450
  - 2. 42,577
  - 3. 40,263
  - 4. 39,376

**Q.4** In a clearance sale, a sari whose marked price was ₹10,490 is now sold for ₹9,441. What is the discount percentage on the sari?

- Ans**
- 1. 10%
  - 2. 15%
  - 3. 18%
  - 4. 12%

**Q.5** A pipe can fill an overhead tank in 12 hours. But due to a leak at the bottom, it is filled in 18 hours. If the tank is full, how much time will the leak take to empty it?

- Ans**
- 1. 3.6 hours
  - 2. 63 hours
  - 3. 7.2 hours
  - 4. 36 hours

Q.6 Two triangles EFG and HIJ are congruent. If the area of  $\Delta EFG$  is  $124 \text{ cm}^2$ , then the area of  $\Delta HIJ$  will be:

- Ans
- 1.  $124 \text{ cm}^2$
  - 2.  $248 \text{ cm}^2$
  - 3.  $62 \text{ cm}^2$
  - 4.  $31 \text{ cm}^2$

Q.7 Let  $a + b = 2c$ , then which of the following expressions is true?

- Ans
- 1.  $a^2 + 2ac = b^2 + 2bc$
  - 2.  $a^2 - 2bc = b^2 - 2ac$
  - 3.  $a^2 + 2bc = b^2 + 2ac$
  - 4.  $a^2 - ac = b^2 - bc$

Q.8 If the equations  $4x + (k - 2)y + 3 = 0$  and  $(k - 2)x + 9y - 5 = 0$  ( $k > 0$ ) are parallel, then find the value of  $k^2 + 6$ .

- Ans
- 1. 68
  - 2. 70
  - 3. 72
  - 4. 64

Q.9 Study the given table and answer the question that follows.

The given table shows the production of T-shirts by four companies i.e., C1, C2, C3 and C4 over the four years.

Year	Production (in thousands)			
	C1	C2	C3	C4
2019	243	244	244	240
2020	248	239	236	230
2021	232	240	235	248
2022	242	244	230	242

Which company had the maximum average production of T-shirts during these four years?

- Ans
- 1. C1
  - 2. C3
  - 3. C2
  - 4. C4

Q.10 If  $x, y$  and  $z$  are positive numbers and  $x + y + z = 1$ , then the least value of  $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$  is:

- Ans
- 1. 7
  - 2. 5
  - 3. 9
  - 4. 11



Q.11 The mean proportional of  $8a^2$  and  $\frac{18}{a^4}$ , where  $a$  is a positive number, is \_\_\_\_\_.

- Ans
- 1.  $\frac{12}{a^2}$
  - 2.  $12a$
  - 3.  $12a^2$
  - 4.  $\frac{12}{a}$

Q.12 If  $\frac{\sec \alpha + \tan \alpha}{\sec \alpha - \tan \alpha} = \frac{7}{4}$ , then find the value of  $\operatorname{cosec} \alpha$ .

- Ans
- 1.  $\frac{1}{3}$
  - 2.  $\frac{1}{11}$
  - 3.  $\frac{11}{3}$
  - 4.  $\frac{3}{11}$

Q.13 Ramesh has ₹18,000. He deposited ₹7,000 in a bank at the rate of 5% per annum and ₹6,000 in other bank at the rate of 6% per annum simple interest. If he received ₹1,160 as simple interest at the end of one year, then the rate of interest per annum on rest of the capital is equal to:

- Ans
- 1. 10%
  - 2. 11%
  - 3. 9%
  - 4. 8%

Q.14 If the length, breadth, and height of a cuboid is 8 cm, 4 cm, and 6 cm, respectively, then the volume (in  $\text{cm}^3$ ) of the cuboid is:

- Ans
- 1. 218
  - 2. 192
  - 3. 96
  - 4. 172

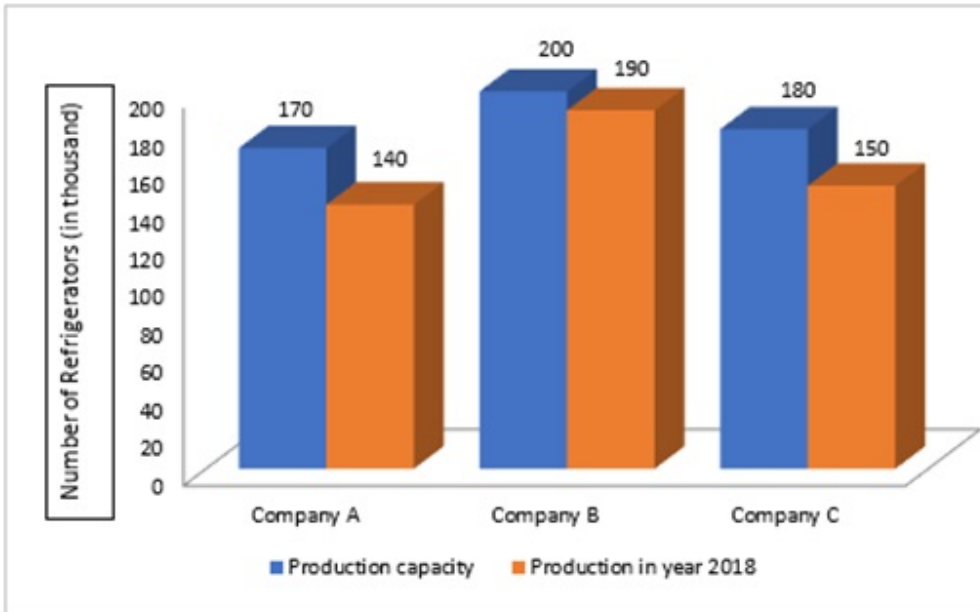
Q.15 The following table shows the sale (in thousands) of different types of helmets by a shop over the given years.

Type of Helmet/Year	1998	1999	2000	2001	2002
A	78	45	56	63	88
B	58	64	78	60	68
C	46	54	58	64	68
D	76	65	72	78	82
E	87	66	74	80	84

What was the percentage increase in the sale of Helmets C in 2002 as compared to that in 1999?

- Ans
- 1. 25.93%
  - 2. 26.39%
  - 3. 28.26%
  - 4. 27.62%

Q.16 Study the given graph and answer the question that follows.  
The graph shows the production of refrigerators by three companies in 2018.



The refrigerators produced by company C form what percentage of the total production?

- Ans
- 1. 34.35%
  - 2. 32.56%
  - 3. 30.25%
  - 4. 31.25%

Q.17 What is the perimeter (in cm, rounded off to one decimal place) of the sector of a circle with a radius of 10 cm and of angle  $30^\circ$ ?  
(Use  $\pi = 3.14$ )

- Ans
- 1. 20.4
  - 2. 35.7
  - 3. 82.8
  - 4. 25.2

Q.18 If 7845K854 is divisible by 11, then what is the value of K?

- Ans
- 1. 6
  - 2. 9
  - 3. 7
  - 4. 8

Q.19 If A is an acute angle, which of the following is equal to  $\frac{\sin A}{1 + \cos A}$ ?

- Ans
- 1.  $\frac{1 - \cos A}{\sin A}$
  - 2.  $\frac{1 + \cos A}{\sin A}$
  - 3.  $\frac{1 - \sin A}{\cos A}$
  - 4.  $\frac{1 + \sin A}{\cos A}$

- Q.20 In  $\Delta PQR$ , the bisectors of  $\angle Q$  and  $\angle R$  meet at point  $O$ , inside the triangle. If  $\angle QOR = 107^\circ$ , then the measure of  $\angle P$  is:
- Ans  1.  $40^\circ$   
 2.  $23^\circ$   
 3.  $17^\circ$   
 4.  $34^\circ$

- Q.21 If  $\frac{7\sin\theta + 4\cos\theta}{9\sin\theta - 2\cos\theta} = \frac{5}{4}$ , then the value of  $\frac{\tan^2\theta + 5}{\tan^2\theta - 5}$  is:
- Ans  1.  $\frac{2121}{769}$   
 2.  $-\frac{2121}{769}$   
 3.  $\frac{769}{2121}$   
 4.  $-\frac{769}{2121}$

- Q.22 A number is first increased by 12% and then increased by 23%. The number, so obtained, is now decreased by 34%. What is the net increase or decrease percent in the original number (nearest to an integer)?
- Ans  1. 10% increase  
 2. 9% decrease  
 3. 10% decrease  
 4. 9% increase

- Q.23 A dishonest shopkeeper claims to sell salt at a rate of ₹25/kg. The cost price of the salt is ₹25/kg. Not satisfied with this, he tries to make profit by removing 200 gm from each kg. What is the shopkeeper's gain percentage?
- Ans  1. 15%  
 2. 25%  
 3. 30%  
 4. 20%

- Q.24 A thief noticed a policeman at a distance of 600 metres. The thief started running and the policeman chased him. The thief and policeman are running at speeds of 12 km/h and 15 km/h, respectively. Find the time (in minutes) required for the policeman to catch the thief.
- Ans  1. 8  
 2. 10  
 3. 12  
 4. 15

Q.25 Find the area (in  $\text{cm}^2$ ) of the sector whose perimeter is  $\frac{64}{3}$  cm and central angle is  $60^\circ$ . (Use  $\pi = \frac{22}{7}$ .)

- Ans
- 1.  $\frac{47}{3}$
  - 2.  $\frac{77}{3}$
  - 3.  $\frac{68}{3}$
  - 4.  $\frac{85}{3}$

Section : English Comprehension

Q.1 Select the option that can be used as a one-word substitute for the given group of words.  
Morbid compulsion to consume alcohol continuously

- Ans
- 1. Satyromania
  - 2. Maniac
  - 3. Kleptomania
  - 4. Dipsomania

Q.2 Select the option that expresses the given sentence in active voice.  
The painting was admired by art enthusiasts from around the world.

- Ans
- 1. The painting was being admired by art enthusiasts from around the world.
  - 2. Art enthusiasts from around the world admired the painting.
  - 3. Art enthusiasts from around the world have admired the painting.
  - 4. The painting has been admired by art enthusiasts from around the world.

Q.3 Select the word segment that can substitute the bracketed word segment correctly and complete the sentence meaningfully.  
(Each participant have) performed well.

- Ans
- 1. Each participant was
  - 2. Each participant has
  - 3. Each participant have been
  - 4. Each participant were

Q.4 Select the most appropriate meaning of the underlined idiom.  
Fatima was at her wits' end trying to decide on a serene place for spending the holidays in.

- Ans
- 1. So worried, confused or annoyed that she does not know what to do next
  - 2. So worried, confused or annoyed that she became unconscious
  - 3. So calm and composed that she knows what to do next
  - 4. So worried, confused or annoyed that she insulted others for no reason

Q.5 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

P. having the opportunity of observing people's  
Q. we respect and appreciate their point of views  
R. the advantage of travelling different places and  
S. culture, custom and lifestyle, is that

- Ans
- 1. RQPS
  - 2. PSQR
  - 3. RPSQ
  - 4. SQPR

**Q.6** Select the INCORRECTLY spelt word.

- Ans**
- 1. Accommodate
  - 2. Mischievous
  - 3. Millennium
  - 4. Privilege

**Q.7** Select the most appropriate synonym of the given word.  
Taut

- Ans**
- 1. Slack
  - 2. Tight
  - 3. Torn
  - 4. Flaccid

**Q.8** Select the option that expresses the given sentence in active voice.  
He will be made President by the people.

- Ans**
- 1. People will be making him the President.
  - 2. The people will make him President.
  - 3. By the people, he shall be made the President.
  - 4. He will be made President by the people.

**Q.9** Which of the following idioms means 'to steal from a shop'?

- Ans**
- 1. Golden opportunity
  - 2. Green thumb
  - 3. Five-finger discount
  - 4. Black sheep

**Q.10** Parts of the following sentence have been given as options. Select the option that contains an error.  
I are dancing with my husband at my sister's wedding.

- Ans**
- 1. husband at my
  - 2. sister's wedding
  - 3. with my
  - 4. I are dancing

**Q.11** Parts of the following sentence have been given as options. Select the option that contains an error.  
The tea at this café is best than at the Costa Café in our office.

- Ans**
- 1. at the Costa Café
  - 2. The tea at this café
  - 3. is best than
  - 4. in our office

**Q.12** Select the most appropriate ANTONYM of the given word.  
Miserable

- Ans**
- 1. Melodious
  - 2. Settled
  - 3. Restrained
  - 4. Cheerful

**Q.13** Select the most appropriate synonym of the given word.  
Confiscate

- Ans**
- 1. Restock
  - 2. Destroy
  - 3. Seize
  - 4. Titivate

**Q.14** Select the most appropriate meaning of the given word.  
Edible

- Ans**
- 1. noisome
  - 2. mortal
  - 3. noxious
  - 4. nutritive

**Q.15** Select the most appropriate option to substitute the underlined segment in the given sentence.  
There are many factories in the operative area of the city.

- Ans**
- 1. industrial
  - 2. serviceable
  - 3. industrious
  - 4. mechanical

**Q.16** Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.

The elaborate syllabi had to be \_\_\_\_\_(summarised) to make a presentation in the UGC assessment meeting.

- Ans**
- 1. expanded
  - 2. recapitulated
  - 3. prolonged
  - 4. lengthened

**Q.17** Identify the INCORRECTLY spelt word in the following sentence and select its correct spelling from the given options.  
I received a parcel in the mail today.

- Ans**
- 1. received
  - 2. recived
  - 3. recieved
  - 4. receaved

**Q.18** Select the option that can be used as a one-word substitute for the underlined group of words.  
The question papers are placed in the lockers of the school in a way that they can't be reached.

- Ans**
- 1. are irrepressible
  - 2. are inaccessible
  - 3. are affordable
  - 4. are affable

**Q.19** Select the most appropriate homophone to fill in the blank.  
He has the \_\_\_\_\_ to express his thoughts.

- Ans**
- 1. right
  - 2. ride
  - 3. write
  - 4. rite

**Q.20** Select the option that can be used as a one-word substitute for the given group of words.  
An order of law requiring people to remain indoors

- Ans**
- 1. Restriction
  - 2. Curfew
  - 3. Limit
  - 4. Check in

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tea prices in the domestic (1) \_\_\_\_\_ continue to rule high in the current year despite the expectation of a higher production as compared to the previous year. During the past three months, tea prices have been (2) \_\_\_\_\_ with the prices of other companies. Unlike last year, tea prices have generally shown (3) \_\_\_\_\_, when tea prices rose dramatically, this year, prices seem to have (4) \_\_\_\_\_ at a rather high level. In the subsequent four months, the (5) \_\_\_\_\_ average price showed a downtrend.

**SubQuestion No : 21****Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. market
  - 2. area
  - 3. zone
  - 4. field

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tea prices in the domestic (1) \_\_\_\_\_ continue to rule high in the current year despite the expectation of a higher production as compared to the previous year. During the past three months, tea prices have been (2) \_\_\_\_\_ with the prices of other companies. Unlike last year, tea prices have generally shown (3) \_\_\_\_\_, when tea prices rose dramatically, this year, prices seem to have (4) \_\_\_\_\_ at a rather high level. In the subsequent four months, the (5) \_\_\_\_\_ average price showed a downtrend.

**SubQuestion No : 22****Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. aligning
  - 2. favouring
  - 3. countering
  - 4. encountering

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tea prices in the domestic (1) \_\_\_\_\_ continue to rule high in the current year despite the expectation of a higher production as compared to the previous year. During the past three months, tea prices have been (2) \_\_\_\_\_ with the prices of other companies. Unlike last year, tea prices have generally shown (3) \_\_\_\_\_, when tea prices rose dramatically, this year, prices seem to have (4) \_\_\_\_\_ at a rather high level. In the subsequent four months, the (5) \_\_\_\_\_ average price showed a downtrend.

**SubQuestion No : 23****Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. an inflow
  - 2. an innate
  - 3. a reduction
  - 4. an uptrend

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tea prices in the domestic (1) \_\_\_\_\_ continue to rule high in the current year despite the expectation of a higher production as compared to the previous year. During the past three months, tea prices have been (2) \_\_\_\_\_ with the prices of other companies. Unlike last year, tea prices have generally shown (3) \_\_\_\_\_, when tea prices rose dramatically, this year, prices seem to have (4) \_\_\_\_\_ at a rather high level. In the subsequent four months, the (5) \_\_\_\_\_ average price showed a downtrend.

**SubQuestion No : 24****Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. stabilised
  - 2. moderated
  - 3. equated
  - 4. abated

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tea prices in the domestic (1)\_\_\_\_\_ continue to rule high in the current year despite the expectation of a higher production as compared to the previous year. During the past three months, tea prices have been (2)\_\_\_\_\_ with the prices of other companies. Unlike last year, tea prices have generally shown (3)\_\_\_\_\_, when tea prices rose dramatically, this year, prices seem to have (4) \_\_\_\_\_ at a rather high level. In the subsequent four months, the (5)\_\_\_\_\_ average price showed a downtrend.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. monthly
  - 2. half yearly
  - 3. weekly
  - 4. yearly

KD JOB UPDATES

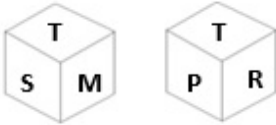


## Combined Graduate Level Examination 2024 Tier I

Exam Date	10/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Six letters S, T, M, P, R and C are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to M.



- Ans**
- 1. R
  - 2. P
  - 3. C
  - 4. S

KD JOB UPDATES

Q.2 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?

D	S	U	D	P	U	O	P	
	U		P		O		S	?
P	O	O	S	S	D	D	U	

Ans

✓ 1.

S		O
	D	
U		P

✗ 2.

S		D
	P	
U		O

✗ 3.

U		O
	S	
P		D

✗ 4.

S		O
	U	
P		D

Q.3 'Blossom' is related to 'Wither' in the same way as 'Stagnate' is related to '\_\_\_\_\_'.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- ✗ 1. Stand
  - ✗ 2. Rest
  - ✗ 3. Languish
  - ✓ 4. Flow

Q.4 Which two signs should be interchanged to make the following equation correct?  
 $18 - 23 \times 455 \div 7 + 28 = 377$

- Ans
- ✗ 1. + and ×
  - ✓ 2. - and ×
  - ✗ 3. - and +
  - ✗ 4. ÷ and -

Q.5 What will come in place of the question mark (?) in the following equation if '+' and '÷' are interchanged and 'x' and '-' are interchanged?

$$4 - 12 + 3 \div 12 \times 6 = ?$$

- Ans
- 1. 13
  - 2. 46
  - 3. 11
  - 4. 22

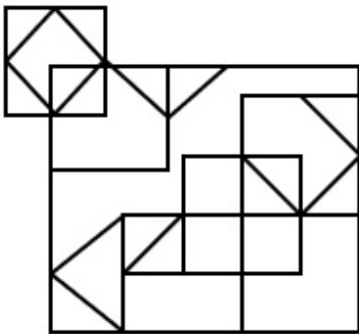
Q.6 The position of how many letters will remain unchanged if each of the letters in the word 'PRANKED' is arranged in the English alphabetical order?

- Ans
- 1. One
  - 2. Three
  - 3. None
  - 4. Two

Q.7 10 is related to 15 following certain logic. Following the same logic, 42 is related to 63. To which of the following numbers is 22 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 28
  - 2. 30
  - 3. 33
  - 4. 31

Q.8 How many squares are there in the given figure?



- Ans
- 1. 14
  - 2. 12
  - 3. 15
  - 4. 13

Q.9 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Temerity : Shyness :: Pique : ?

- Ans
- 1. Resentment
  - 2. Anger
  - 3. Delight
  - 4. Offence

Q.10 Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

L M B A \_ H O L M B A C \_ O L M \_ A C H O L \_ B A C H O L \_

- Ans
- 1. CHMBM
  - 2. CMHBM
  - 3. CHBMM
  - 4. CHMMB

- Q.11** Select the set in which the numbers are related in the same way as are the numbers of the following set.  
(7, 9, 48)  
(6, 8, 42)  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
- Ans**  1. (8, 10, 47)  
 2. (9, 11, 56)  
 3. (11, 13, 72)  
 4. (10, 12, 54)
- 
- Q.12** Three of the following four options are alike in a certain way and thus form a group. Which is the option that does NOT belong to that group?  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed).
- Ans**  1. 2 – 4 – 8  
 2. 2 – 2 – 4  
 3. 3 – 2 – 5  
 4. 1 – 3 – 3
- 
- Q.13** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.  
Statements: Some boxes are cartons. All cartons are papers. Some cartons are utensils.  
Conclusion (I): No box is a utensil.  
Conclusion (II): Some papers are utensils.
- Ans**  1. Both conclusions (I) and (II) follow  
 2. Neither conclusion (I) nor (II) follows  
 3. Only conclusion (II) follows  
 4. Only conclusion (I) follows
- 
- Q.14** Select the set in which the numbers are related in the same way as are the numbers of the following set.  
(79, 58, 62)  
(54, 33, 37)  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
- Ans**  1. (59, 33, 43)  
 2. (47, 36, 41)  
 3. (66, 45, 49)  
 4. (43, 25, 30)
- 
- Q.15** In a certain code language, 'sit on chair' is coded as 'sk mi cn' and 'the chair broke' is coded as 'gm fr mi'. How is 'chair' coded in the given language?
- Ans**  1. sk  
 2. cn  
 3. mi  
 4. gm

Q.16 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. yReA4kL
  - 2. yReA4kL
  - 3. yReA4kL
  - 4. yReA4kL

Q.17 Which figure should replace the question mark (?) if the following series were to be continued?

K	X	W	T	
L 8	2 L	L 2	8 L	?
X W 2	K 8 W	T X 8	W 2 X	

- Ans
- 1. 

8		
	L	T
X	W	2
  - 2. 

X		
	L	8
9	T	2
  - 3. 

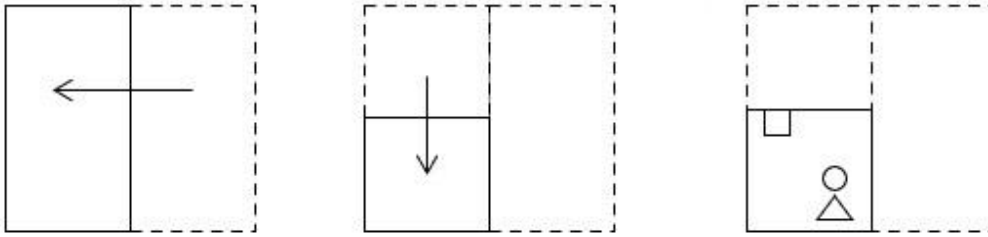
2		
	L	8
9	X	T
  - 4. 

X		
	L	8
T	W	2

Q.18 In a certain code language, 'BELL' is written as 'MKFA' and 'BOND' is written as 'EMPA'. How will 'BLEW' be written in that language?

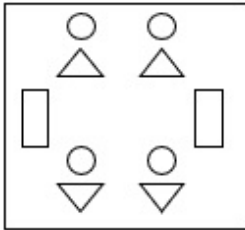
- Ans
- 1. XMDA
  - 2. XMAD
  - 3. XDAM
  - 4. XDMA

Q.19 A paper is folded and cut as shown below. How will it appear when unfolded?

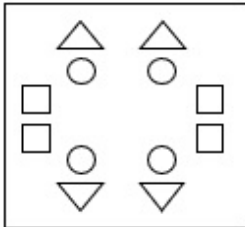


Ans

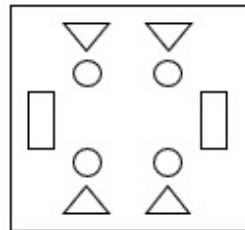
✗ 1.



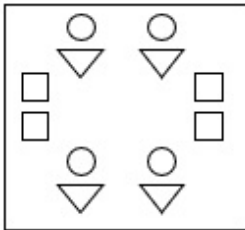
✗ 2.



✓ 3.



✗ 4.



Q.20 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different. The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

- Ans
- ✗ 1. LQV
  - ✗ 2. DIN
  - ✓ 3. PTX
  - ✗ 4. AFK

Q.21 Which letter-cluster will replace the question mark (?) to complete the given series?  
ZVRN, VSPM, RPNL, ?, JJJJ

- Ans
- ✗ 1. RMLN
  - ✗ 2. RNLL
  - ✗ 3. RNLK
  - ✓ 4. NMLK

Q.22 Select the number from among the given options that can replace the question mark (?) in the following series.  
23, 27, 43, 79, 143, ?

- Ans
- ✗ 1. 240
  - ✓ 2. 243
  - ✗ 3. 250
  - ✗ 4. 200

Q.23 In a certain code language,  
A # B means A is the sister of B.  
A @ B means A is the son of B.  
A & B means A is the wife of B.  
A % B means A is the father of B.  
How is Q related to R if P & Q % L # R & K?

- Ans
- 1. Sister
  - 2. Wife
  - 3. Father
  - 4. Mother

Q.24 Select the option that can replace the question mark (?) in the following series.  
FM61, EK58, DI55, CG52, ?

- Ans
- 1. BE49
  - 2. CE46
  - 3. CD44
  - 4. BF48

Q.25 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. B A 2 3 P n
  - 2. B A 3 2 P u
  - 3. B A 3 2 P u
  - 4. B A 3 2 P u

Section : General Awareness

Q.1 In which of the following cities of Manipur is the Jawaharlal Nehru Manipur Dance Academy located?

- Ans
- 1. Imphal
  - 2. Ukhrul
  - 3. Chandel
  - 4. Thoubal

Q.2 By which of the following state governments is the Tansen Music Festival organised?

- Ans
- 1. Maharashtra Government
  - 2. Madhya Pradesh Government
  - 3. Rajasthan Government
  - 4. Uttar Pradesh Government

Q.3 Which of the following places is related to Gandhi's Satyagraha of the year 1917?

- Ans
- 1. Kheda
  - 2. Ahmedabad
  - 3. Champaran
  - 4. Bardoli

Q.4 Hubbardia heptaneuron, which has become endangered, is a species of which of the following?

- Ans
- 1. Grass
  - 2. Bamboo
  - 3. Tiger
  - 4. Crane

Q.5 Which of the following is in geographical proximity to Sri Lanka?

- Ans
- 1. Only Karaikal
  - 2. Karaikal and Yanam
  - 3. Mahe
  - 4. Only Yanam

Q.6 Which Five-Year Plan primarily focused on the 'Garibi Hatao' initiative?

- Ans
- 1. Sixth Five-Year Plan
  - 2. Fourth Five-Year Plan
  - 3. Fifth Five-Year Plan
  - 4. Third Five-Year Plan

Q.7 Which of the following statements is INCORRECT about the Directive Principles of State Policy?

- Ans
- 1. They promote welfare of individuals. Hence, they are personal and individualistic.
  - 2. These have moral and political sanctions.
  - 3. They aim at establishing social and economic democracy in the country.
  - 4. They are positive, as they require the State to do certain things.

Q.8 After the death of Humayun, the 13 year-old Akbar was coronated in 1556 at Kalanaur in \_\_\_\_\_.

- Ans
- 1. Rajasthan
  - 2. Gujarat
  - 3. Bengal
  - 4. Punjab

Q.9 The climate of a place is NOT affected by which of the following?

- Ans
- 1. Relief
  - 2. Type of soil
  - 3. Location
  - 4. Distance from the sea

Q.10 In which musical note did Newland put the metals Co and Ni with halogens?

- Ans
- 1. Fa
  - 2. Do
  - 3. Re
  - 4. Mi

Q.11 Which of the following is NOT correct with regards to the history of calculating National Income (NI) in India?

- Ans
- 1. First attempt to compute NI was made by Dadabhai Naoroji.
  - 2. First official attempt to compute NI was made by PC Mahalanobis.
  - 3. Dadabhai Naoroji divided the Indian economy into two parts: primary sector and secondary sector.
  - 4. First scientific method to compute NI was used by Dr VKRV Rao.



**Q.12** According to the Indian Railways (2019-2020), which state has the largest railway track in India?

- Ans**
- 1. Punjab
  - 2. Haryana
  - 3. Madhya Pradesh
  - 4. Uttar Pradesh

**Q.13** Which government honoured a distinguished percussionist named Pandit Anindo Chatterjee with the Banga Vibhushan Award in 2022?

- Ans**
- 1. Assam
  - 2. Tripura
  - 3. West Bengal
  - 4. Jharkhand

**Q.14** Which of the following festivals is celebrated as the birth anniversary of Guru Nanak Dev?

- Ans**
- 1. Hola Mohalla
  - 2. Baisakhi
  - 3. Gurpurab
  - 4. Chappar Mela

**Q.15** Who was appointed as India's 28<sup>th</sup> Controller General of Accounts (CGA) in March 2023?

- Ans**
- 1. Arun Goel
  - 2. Praveen Sharma
  - 3. Vikram Devdutt
  - 4. SS Dubey

**Q.16** The Parliament passed the Marine Aids to Navigation Bill, 2021 to repeal and replace which of the following Acts?

- Ans**
- 1. The Dangerous Machines (Regulation) Act, 1983
  - 2. The Personal Injuries (Emergency Provisions) Act, 1962
  - 3. The Lighthouse Act, 1927
  - 4. The Dourine Act, 1910

**Q.17** Which of the following is a non-perishable food?

- Ans**
- 1. Pulses
  - 2. Meat
  - 3. Curds
  - 4. Milk

**Q.18** How many awards were presented at the National Sports and Adventure Awards-2022 ceremony held at Rashtrapati Bhavan on 30 November 2022?

- Ans**
- 1. 32
  - 2. 44
  - 3. 52
  - 4. 28

**Q.19** Which Governor-General of British India helped Raja Ram Mohan Roy legally abolish the sati practice?

- Ans**
- 1. Lord Ripon
  - 2. Lord Curzon
  - 3. Lord Cornwallis
  - 4. Lord William Bentinck

**Q.20** When was the 1st Asian Kabaddi Championship held?

- Ans**
- 1. 1970
  - 2. 1985
  - 3. 1980
  - 4. 1975

**Q.21** The decomposition of gaseous Ammonia on a hot platinum surface is a \_\_\_\_\_ order reaction at high pressure.

- Ans**
- 1. two
  - 2. zero
  - 3. three
  - 4. one

**Q.22** Which of the following was the mascot of the FIH men's Hockey World Cup – 2023?

- Ans**
- 1. Jitu
  - 2. Bheema
  - 3. Olly
  - 4. Asha

**Q.23** The Indian Constitution has established \_\_\_\_\_.

- Ans**
- 1. partial Judicial system
  - 2. dual judicial system
  - 3. independent judicial system
  - 4. plural judicial system

**Q.24** Which organisms are classified as Aves?

- Ans**
- 1. Fishes
  - 2. Frogs
  - 3. Snakes
  - 4. Birds

**Q.25** Mahabalipuram emerged as an important centre of temple architecture under which of the following kingdoms of south India?

- Ans**
- 1. Pallava
  - 2. Chola
  - 3. Chera
  - 4. Chalukya

Section : Quantitative Aptitude

**Q.1** The ages of two friends, Ram and Ravi, differ by 7 years. Ram's mother Mayadevi is three times as old as Ram, and Ravi is four times as old as his brother Soham. The ages of Mayadevi and Soham differ by 65 years. Find the age of Mayadevi (in years).

- Ans**
- 1. 69
  - 2. 36
  - 3. 85
  - 4. 45

Q.2 The following table represents the total number of research scholars and the respective number of female research scholars in various departments of a university. Study the table carefully and answer the question that follows.

Department	Total number of research scholars	Number of female research scholars
Physics	35	12
Chemistry	40	28
Mathematics	18	4
Statistics	12	3

What is the ratio of male research scholars in Mathematics to Statistics?

- Ans
- 1. 14 : 9
  - 2. 7 : 6
  - 3. 6 : 7
  - 4. 9 : 14

Q.3 What is the value of D, if  $A : C = B : D$  in the given table?

A	B	C	D
25	40	30	?

- Ans
- 1. 56
  - 2. 48
  - 3. 45
  - 4. 42

Q.4 By applying which of the following criteria can two triangles NOT be proved congruent?

- Ans
- 1. angle-side-angle
  - 2. angle-angle-angle
  - 3. side-side-side
  - 4. side-angle-side

Q.5 Two circles of radii 18 cm and 12 cm touch each other externally. Find the length (in cm) of their direct common tangent.

- Ans
- 1.  $15\sqrt{6}$
  - 2.  $10\sqrt{6}$
  - 3.  $12\sqrt{6}$
  - 4.  $18\sqrt{6}$

Q.6  $\frac{2 + \tan^2 2A + \cot^2 2A}{\sec 2A \cdot \operatorname{cosec} 2A}$  is equal to \_\_\_\_\_.

- Ans
- 1.  $\sec 2A + \tan 2A$
  - 2.  $\sec 2A + \operatorname{cosec} 2A$
  - 3.  $\cot 2A - \operatorname{cosec} 2A$
  - 4.  $\sec 2A - \operatorname{cosec} 2A$

Q.7 Kiran lent ₹4,000 to two persons such that one part of it at the rate of 8% per annum and the remaining part at the rate of 10% per annum. He got an annual simple interest of ₹352. Then the sum lent at 10% is:

- Ans
- 1. ₹1,800
  - 2. ₹2,200
  - 3. ₹2,400
  - 4. ₹1,600

Q.8 X, Y, and Z are three points on a plane with  $XY = 11$  cm,  $YZ = 13$  cm, and  $XZ = 24$  cm. The number of circles that travel through points X, Y, and Z is:

- Ans
- 1. 0
  - 2. 2
  - 3. 1
  - 4. 3

Q.9 The value of  $15 \div 3$  of  $2 \times 2 + 9 \div 18$  of  $2 \times 4 - 4 \div 8 \times 2$  is:

- Ans
- 1. 8
  - 2. 5
  - 3.  $2\frac{3}{4}$
  - 4.  $7\frac{3}{4}$

Q.10 If, on a marked price, the difference between selling prices with a discount of 65% and with two successive discounts of 30% and 40% is ₹105, then the marked price (in ₹) is:

- Ans
- 1. 1,650
  - 2. 1,050
  - 3. 1,500
  - 4. 1,320

Q.11 A pole 10 m long rests slantly against a vertical wall AB making an angle  $30^\circ$  with the horizontal (ground). Find how far the foot of the pole is from the wall (in metres).

- Ans
- 1. 15
  - 2.  $\frac{5}{\sqrt{3}}$
  - 3. 10
  - 4.  $5\sqrt{3}$

Q.12 The bar graph given below shows the sales of books from six schools during two consecutive years, 2013 and 2014.



What percentage of the average sales of the schools A, B, and C in 2014 is the average sales of schools A, C, and F in 2013?

- Ans
- 1. 81.08%
  - 2. 81%
  - 3. 80%
  - 4. 80.08%

Q.13 A money bag contains one rupee, 5 rupee and 10 rupee coins in the ratio of 3 : 5 : 7 respectively. If the total amount in the bag is ₹980, then find the number of coins of ₹10.

- Ans
- 1. 69
  - 2. 70
  - 3. 71
  - 4. 68

Q.14 Which of the following is the largest 5-digit number divisible by 47?

- Ans
- 1. 99999
  - 2. 98888
  - 3. 99969
  - 4. 10000

Q.15 If a right circular cone of height 24 cm has a volume of  $1232 \text{ cm}^3$ , then the total surface area of the cone is (use  $\pi = \frac{22}{7}$ ):

- Ans
- 1.  $806 \text{ cm}^2$
  - 2.  $704 \text{ cm}^2$
  - 3.  $904 \text{ cm}^2$
  - 4.  $608 \text{ cm}^2$

Q.16 Let  $0^\circ < t < 90^\circ$ . Then which of the followings is true?

- Ans
- 1.  $\sin(t) \neq \cos(t)$  when  $t = 45^\circ$
  - 2.  $\sin(t) > \cos(t)$  when  $t < 45^\circ$
  - 3.  $\sin(t) < \cos(t)$  when  $t < 45^\circ$
  - 4.  $\sin(t) < \cos(t)$  when  $t > 45^\circ$

Q.17 Ramesh purchased some items from a dealer on 19 November 2019. The bill generated was for ₹5,480. He had also purchased some items on 10 November 2019 having the bill value of ₹9,800. He cleared both the bills this time and paid the total amount in cash. If the dealer gives a scheme of 2% discount on the payments done within 10 days and 5% for the payments made in cash at the time of purchase, then find the amount paid by Ramesh on 19 November 2019.

- Ans
- 1. ₹14,850
  - 2. ₹14,810
  - 3. ₹14,890
  - 4. ₹14,950

Q.18 Find the gain percentage, given that Priya sold her scooter for ₹42564 gaining  $\frac{1}{6}$ th of the selling price.

- Ans
- 1. 30%
  - 2. 20%
  - 3. 15%
  - 4. 40%

Q.19 If  $a + \frac{1}{a} = 12$ , then find the value of  $a^2 + \frac{1}{a^2}$ .

- Ans
- 1. 144
  - 2. 146
  - 3. 142
  - 4. 140

Q.20 The side of an equilateral triangle is 28 cm. Taking each vertex as the centre, a circle is described with a radius equal to half the length of the side of the triangle. Find the area of that part of the triangle which is not included in the circles (use  $\pi = \frac{22}{7}$  and  $\sqrt{3} = 1.73$ ).

- Ans
- 1. 30.89 cm<sup>2</sup>
  - 2. 38.08 cm<sup>2</sup>
  - 3. 31.08 cm<sup>2</sup>
  - 4. 39.08 cm<sup>2</sup>

Q.21 Study the given table and answer the question that follows.  
The given table shows the production of three types of cars (A, B and C) manufactured (in thousands) by an automobile company over the years.

Year	A	B	C
2015	840	680	890
2016	900	750	960
2017	760	620	1000
2018	800	540	1200

For all the years from 2015 to 2018, the average production of B-type cars is how much less (in thousands) than that of the combined average production of A-type and C-type cars?

- Ans
- 1. 238.5
  - 2. 271.25
  - 3. 314.75
  - 4. 284.55

Q.22 In a circular race of 750 m, X and Y start from the same point and at the same time with speeds of 9 km/h and 13.5 km/h, respectively. If they are running in the same direction then, when will they meet again for the first time on the track?

- Ans
- 1. 750 seconds
  - 2. 900 seconds
  - 3. 500 seconds
  - 4. 600 seconds

Q.23 A bus travels  $\frac{1}{3}$  of the distance initially at a speed of 40 km/h, the next  $\frac{1}{3}$  of the distance 50 km/h, and the final  $\frac{1}{3}$  of the distance at 60 km/h. Find the average speed of the bus for the entire journey.

(Rounded off to two decimal places)

- Ans
- 1. 48.65 km/h
  - 2. 51.43 km/h
  - 3. 54.13 km/h
  - 4. 46.85 km/h

Q.24 Three pipes P, Q and R can fill a cistern in 40 minutes, 80 minutes and 120 minutes, respectively. Initially, all the pipes are opened. After how much time (in minutes) should the pipes Q and R be turned off so that the cistern will be completely filled in just half an hour?

- Ans
- 1. 14
  - 2. 10
  - 3. 16
  - 4. 12

Q.25 If the sum of three numbers is 18 and the sum of their squares is 36, then find the difference between the sum of their cubes and three times of their product.

- Ans
- 1. 1449
  - 2. -1944
  - 3. -1494
  - 4. 4149

Section : English Comprehension

Q.1 Identify the most appropriate antonym of the given word.

Timid

- Ans
- 1. Meek
  - 2. Anxious
  - 3. Daring
  - 4. Spooky

Q.2 Select the most appropriate meaning of the given idiom.  
On the ball

- Ans
- 1. Unaware of any changes or developments and lazy to react to them
  - 2. Aware of any changes or developments but slow to react to them
  - 3. Aware of any changes or developments and quick to react to them
  - 4. Aware of any changes or developments but doing nothing

Q.3 Select the most appropriate option to substitute the underlined segment in the given sentence.  
I have been living in Hyderabad since I am born .

- Ans
- 1. since I have born
  - 2. since I will be born
  - 3. since I born
  - 4. since I was born

Q.4 Select the option that can be used as a one-word substitute for the given group of words.

A person who sells and arranges cut flowers.

- Ans
- 1. Horticulturist
  - 2. Botanist
  - 3. Gardener
  - 4. Florist

Q.5 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
After the concert was over, / they go to a restaurant, / had dinner together / and talked until midnight.

- Ans
- 1. had dinner together
  - 2. they go to a restaurant,
  - 3. After the concert was over,
  - 4. and talked until midnight

Q.6 Select the option that can be used as a one-word substitute for the given group of words.

A small group of people who spend their time together and do not welcome other people into that group

- Ans
- 1. Squad
  - 2. Clique
  - 3. Employees
  - 4. Lobby

Q.7 The following sentence contains a word with a spelling error. Rectify the sentence by selecting the correct spelling of the identified word from the given options.

He has to be conscious of his public manners as he is a decendent of a reputed family in this region.

- Ans
- 1. Dicsendent
  - 2. Descendant
  - 3. Discendent
  - 4. Decendant

Q.8 Select the most appropriate synonym of the underlined word in the given sentence.

The Morbi bridge mishap has left Gujarat in a deplorable state.

- Ans
- 1. Jubilation
  - 2. Despicable
  - 3. Complaining
  - 4. Rejoicing

Q.9 Select the most appropriate synonym of the underlined word.

He was trembling with fear.

- Ans
- 1. Shivering
  - 2. Weeping
  - 3. Running
  - 4. Intrepid



**Q.10** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. More children go to school than at any time in the past. But more children today are out of school than any time in the past.

B. But it is not enough to blame the high birth rate for this state of affairs.

C. Indeed, it can be reasonably argued that continued mass illiteracy is not the result but the cause of the high birth rate.

D. There are more literate people in India today than ever before. But there are also more illiterates than ever before.

Ans  1. ABCD

2. CBAD

3. DABC

4. BADC

**Q.11** Select the most appropriate synonym of the bold word in the following sentence.  
He tried to alleviate the sufferings of his neighbours.

Ans  1. Swell

2. Add

3. Intensify

4. Relieve

**Q.12** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
Renewable energy / sources like solar and wind power / will replaced traditional fossil fuels / and help reduce carbon emissions.

Ans  1. and help reduce carbon emissions

2. Renewable energy

3. will replaced traditional fossil fuels

4. sources like solar and wind power

**Q.13** Identify from the given options the word which is similar in meaning to the following word.  
Equivocal

Ans  1. Clear

2. Ambiguous

3. Representative

4. Balanced

**Q.14** Select the most appropriate ANTONYM of the underlined word.

She was elated about her promotion, but her colleague felt quite disheartened.

Ans  1. cheerful

2. proud

3. discouraged

4. delighted

**Q.15** Select the option that expresses the given sentence in active voice.  
The contract was grabbed by the biggest telecom company in India.

Ans  1. The biggest telecom company in India grabbed the contract.

2. The biggest telecom company in India grabs the contract.

3. The biggest telecom company in India will grab the contract.

4. The biggest telecom company in India has grabbed the contract.

**Q.16** Select the most appropriate idiom to fill in the blank.

I'm \_\_\_\_\_ about whether to accept the job offer or continue freelancing. Both options have their advantages.

Ans  1. on the fence

2. cutting corners

3. left out in cold

4. up in arms

**Q.17** Select the correctly spelt word.

- Ans**
- 1. Conscensus
  - 2. Entrepreneurship
  - 3. Collaegue
  - 4. Bizzaire

**Q.18** Select the option that expresses the given sentence in active voice.  
By whom was grammar taught to you?

- Ans**
- 1. Did he teach you grammar?
  - 2. Who had taught you grammar?
  - 3. You were taught grammar by whom?
  - 4. Who taught you grammar?

**Q.19** Select the option that can be used as a one-word substitute for the given group of words.

A place where fruit trees are grown

- Ans**
- 1. Orchard
  - 2. Garden
  - 3. Quay
  - 4. Museum

**Q.20** Select the option that can be used as a one-word substitute for the given group of words.  
A government by the officials

- Ans**
- 1. Autocracy
  - 2. Bureaucracy
  - 3. Monarchy
  - 4. Plutocracy

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The third National Wildlife Action Plan for 2017- 2031, underlying India's plan for wildlife conservation, was unveiled (1)\_\_\_\_\_ the Global Wildlife Programme conference. The plan recognises (2)\_\_\_\_\_ addresses concerns pertaining to climate changes and its impact on wildlife .

The plan details the importance of ecosystems for food production, health and other aspects of (3)\_\_\_\_\_ survival and sustainable development. It also emphasises preservation of genetic (4)\_\_\_\_\_ and sustainable utilisation of species and ecosystems which has direct bearing on our scientific advancements and support to millions of rural communities.

The plan underscores rehabilitation of threatened wildlife species (5)\_\_\_\_\_ inland aquatic, coastal and marine ecosystems while conserving their habitats.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. at
  - 2. for
  - 3. in
  - 4. to

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The third National Wildlife Action Plan for 2017- 2031, underlying India's plan for wildlife conservation, was unveiled (1)\_\_\_\_\_ the Global Wildlife Programme conference. The plan recognises (2)\_\_\_\_\_ addresses concerns pertaining to climate changes and its impact on wildlife .

The plan details the importance of ecosystems for food production, health and other aspects of (3)\_\_\_\_\_ survival and sustainable development. It also emphasises preservation of genetic (4)\_\_\_\_\_ and sustainable utilisation of species and ecosystems which has direct bearing on our scientific advancements and support to millions of rural communities.

The plan underscores rehabilitation of threatened wildlife species (5)\_\_\_\_\_ inland aquatic, coastal and marine ecosystems while conserving their habitats.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. to
  - 2. and
  - 3. in
  - 4. for

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The third National Wildlife Action Plan for 2017- 2031, underlying India's plan for wildlife conservation, was unveiled (1)\_\_\_\_\_ the Global Wildlife Programme conference. The plan recognises (2)\_\_\_\_\_ addresses concerns pertaining to climate changes and its impact on wildlife .

The plan details the importance of ecosystems for food production, health and other aspects of (3)\_\_\_\_\_ survival and sustainable development. It also emphasises preservation of genetic (4)\_\_\_\_\_ and sustainable utilisation of species and ecosystems which has direct bearing on our scientific advancements and support to millions of rural communities.

The plan underscores rehabilitation of threatened wildlife species (5)\_\_\_\_\_ inland aquatic, coastal and marine ecosystems while conserving their habitats.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. group
  - 2. human
  - 3. species
  - 4. breed

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The third National Wildlife Action Plan for 2017- 2031, underlying India's plan for wildlife conservation, was unveiled (1)\_\_\_\_\_ the Global Wildlife Programme conference. The plan recognises (2)\_\_\_\_\_ addresses concerns pertaining to climate changes and its impact on wildlife .

The plan details the importance of ecosystems for food production, health and other aspects of (3)\_\_\_\_\_ survival and sustainable development. It also emphasises preservation of genetic (4)\_\_\_\_\_ and sustainable utilisation of species and ecosystems which has direct bearing on our scientific advancements and support to millions of rural communities.

The plan underscores rehabilitation of threatened wildlife species (5)\_\_\_\_\_ inland aquatic, coastal and marine ecosystems while conserving their habitats.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. conflict
  - 2. diversity
  - 3. focus
  - 4. rejection

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The third National Wildlife Action Plan for 2017- 2031, underlying India's plan for wildlife conservation, was unveiled (1)\_\_\_\_\_ the Global Wildlife Programme conference. The plan recognises (2)\_\_\_\_\_ addresses concerns pertaining to climate changes and its impact on wildlife .

The plan details the importance of ecosystems for food production, health and other aspects of (3)\_\_\_\_\_ survival and sustainable development. It also emphasises preservation of genetic (4)\_\_\_\_\_ and sustainable utilisation of species and ecosystems which has direct bearing on our scientific advancements and support to millions of rural communities.

The plan underscores rehabilitation of threatened wildlife species (5)\_\_\_\_\_ inland aquatic, coastal and marine ecosystems while conserving their habitats.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. including
  - 2. gathering
  - 3. counting
  - 4. mixing

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	10/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** In a certain code language,  
A + B means 'A is the brother of B'.  
A - B means 'A is the father of B'.  
A × B means 'A is the mother of B'.  
A ÷ B means 'A is the wife of B'.  
Based on the above, how is P related to T if 'P × Q + R ÷ S - T'?

- Ans**
- 1. Sister
  - 2. Wife
  - 3. Mother
  - 4. Mother's mother

**Q.2** Select the number from among the given options that can replace the question mark (?) in the following series.  
543, 518, 495, 474, 455, ?

- Ans**
- 1. 444
  - 2. 442
  - 3. 440
  - 4. 438

**Q.3** 104 is related to 13 following a certain logic. Following the same logic, 136 is related to 17. To which of the following is 232 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans**
- 1. 29
  - 2. 31
  - 3. 33
  - 4. 27

**Q.4** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some bags are purses.

All purses are wallets.

All wallets are sacks.

Conclusions:

(I) All purses are sacks.

(II) Some wallets are bags.

- Ans**
- 1. Both conclusions (I) and (II) are follow
  - 2. Only conclusion (II) is follow
  - 3. Neither conclusion (I) nor (II) is follow
  - 4. Only conclusion (I) is follow

**Q.5** Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

No bench is chair.  
All sofas are benches.  
All tables are sofas.

**Conclusions:**

I. No table is a chair.  
II. Some sofas are chairs.  
III. All tables are benches.

- Ans**
- 1. Only conclusion I follows
  - 2. Only conclusions I and II follow
  - 3. Only conclusion II follows
  - 4. Only conclusions I and III follow

**Q.6** In a certain code language, 'COWS' is coded as '7935' and 'OILY' is coded as '2568'. What is the code for 'O' in that language?

- Ans**
- 1. 5
  - 2. 8
  - 3. 2
  - 4. 9

**Q.7** Three of the following number-pairs are alike in some manner and hence form a group. Which number-pair does not belong to that group?  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. 21 – 420
  - 2. 22 – 462
  - 3. 18 – 306
  - 4. 15 – 240

**Q.8** Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group? The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

- Ans**
- 1. DHK
  - 2. EIM
  - 3. BFJ
  - 4. IMQ

**Q.9** Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
BACK : CCBI :: TEST : UGRR :: WORK : ?

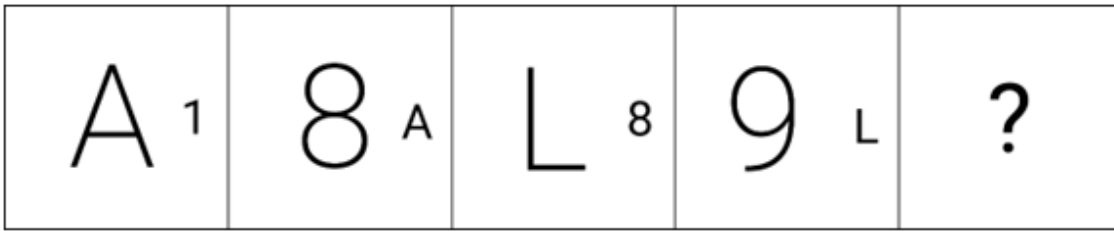
- Ans**
- 1. YQQJ
  - 2. XQSI
  - 3. YQPI
  - 4. XQQI

**Q.10** Select the pair in which the numbers are related to each other in the same way as are the numbers in the given pairs.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

12 : 25  
11 : 23

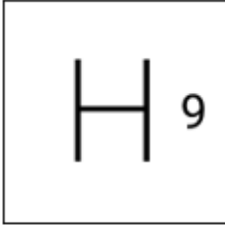
- Ans**
- 1. 15 : 29
  - 2. 25 : 49
  - 3. 21 : 43
  - 4. 18 : 35

Q.11 Identify the figure given in the options which when put in place of ? will logically complete the series.

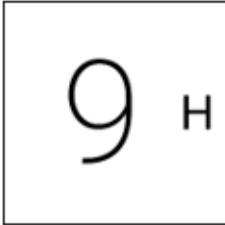


Ans

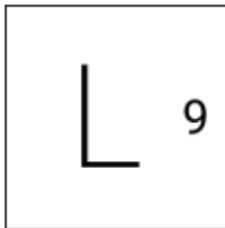
✓ 1.



✗ 2.



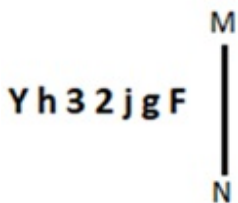
✗ 3.



✗ 4.



Q.12 Select the correct mirror image of the given figure when the mirror is placed at MN.



Ans

✗ 1. F g j 2 3 h Y

✗ 2. F g j 3 2 h Y

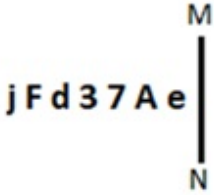
✗ 3. F g j 3 2 h Y

✓ 4. F g j 3 2 h Y

**Q.13** Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
 (25, 300, 6)  
 (19, 342, 9)

- Ans**
- 1. (17, 476, 7)
  - 2. (24, 600, 5)
  - 3. (18, 288, 8)
  - 4. (14, 364, 7)

**Q.14** Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans**
- 1. eA7εdFj
  - 2. eA7εbfi
  - 3. eA7ε3bfi
  - 4. Ae7εbfi

**Q.15** Six letters A, T, M, P, S and R are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to the one having R.



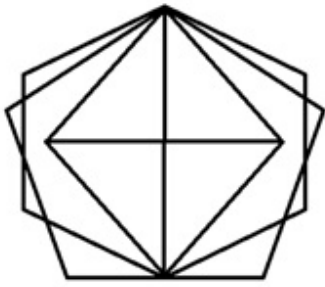
- Ans**
- 1. S
  - 2. T
  - 3. A
  - 4. M

**Q.16** In a certain code language, 'TIZZ' is written as 'VKBB' and 'QOPH' is written as 'SQRJ'. How will 'CKAU' be written in that language?

- Ans**
- 1. EMCW
  - 2. DNBV
  - 3. ENCV
  - 4. DMBW



Q.17 How many triangles are there in the given figure?



- Ans
- 1. 16
  - 2. 17
  - 3. 14
  - 4. 15

Q.18 Each vowel in the word 'SIMILAR' is changed to the following letter in the English alphabetical order and each consonant is changed to the preceding letter in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is the second from the left end and the third from the left end in the group of letters thus formed?

- Ans
- 1. Three
  - 2. Two
  - 3. One
  - 4. Four

Q.19 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?  
ICT, FES, CGR, ZIQ, ?

- Ans
- 1. XLO
  - 2. WKP
  - 3. XKP
  - 4. WJP

KD JOB UPDATES

Q.20 Which figure should replace the question mark (?) if the following series were to be continued?

P	V	☆	3	S	☆	7	3	
7	O	S	V	N	P	P	V	N
☆	3	S	7	7	3	N	I	S
								?

Ans

✗ 1.

☆	P
N	7 3
I	S

✓ 2.

N	7
S	☆ I
P	3

✗ 3.

P	7
S	☆ I
3	N

✗ 4.

N	S
7	3 P
☆	I

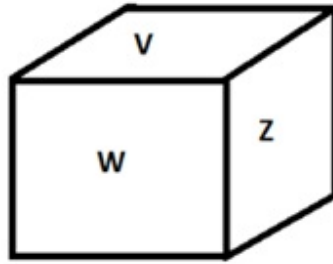
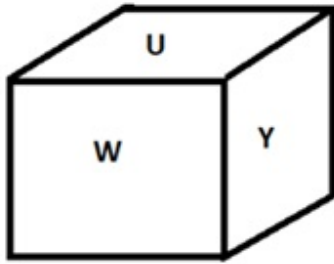
Q.21 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
DOY:PAK ::BQM:NCY :: ILU:?

- Ans
- ✗ 1. TYG
  - ✗ 2. UYG
  - ✗ 3. TXG
  - ✓ 4. UXG

Q.22 Which two numbers (not digits) should be interchanged to make the given equation correct?  
 $116 - 92 \div 4 + 25 \times 2 - 20 = 150$

- Ans
- ✗ 1. 116 and 92
  - ✗ 2. 25 and 20
  - ✓ 3. 2 and 4
  - ✗ 4. 20 and 92

Q.23 Six letters U, V, W, X, Y and Z are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to Z.



- Ans
- 1. W
  - 2. Y
  - 3. X
  - 4. U

Q.24 Which two numbers (not digits) should be interchanged to make the given equation correct?  
 $72 - 6 + (18 \div 4) + 17 - (22 \times 2) = 44$

- Ans
- 1. 2 and 4
  - 2. 22 and 18
  - 3. 6 and 22
  - 4. 6 and 4

Q.25 Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

DF \_ IJOD \_ HIJO \_ FHIJODF \_ IJOD \_

- Ans
- 1. HFFDH
  - 2. FHDHF
  - 3. HFHDF
  - 4. HFDHF

Section : General Awareness

Q.1 As of March 2023, how many High Courts are there in India?

- Ans
- 1. 25
  - 2. 35
  - 3. 30
  - 4. 20

Q.2 Harela is a festival of greenery, peace, prosperity, and environmental conservation, primarily celebrated in which of the following states?

- Ans
- 1. Madhya Pradesh
  - 2. Haryana
  - 3. Assam
  - 4. Uttarakhand

Q.3 Which species is known as black lipped pearl oyster found in the Indo-Pacific, within tropical coral reefs?

- Ans
- 1. *Aplysia dactylomela*
  - 2. *Dentalium neohexagonum*
  - 3. *Chaetopleura apiculata*
  - 4. *Pinctada margaritifera*

Q.4 The CSO adopted the concept of Gross Value Added in \_\_\_\_\_.

Ans  1. January 2012

2. January 2015

3. January 2017

4. January 2013

Q.5 Which of the following social reformers of 19th century India was the author of 'Stree Purush Tulana'?

Ans  1. Tarabai Shinde

2. Swarnakumari Devi

3. Pandita Ramabai

4. Usha Mehta

Q.6 How many medals did India win in International Shooting Sport Federation (ISSF) World Cup 2022, which was held in Cairo, Egypt?

Ans  1. 9

2. 6

3. 7

4. 8

Q.7 Ustad Vilayat Ali Khan is a maestro in \_\_\_\_\_.

Ans  1. Tabla

2. Mridangam

3. Sitar

4. Flute

Q.8 Which physical feature of India prevents the cold winds from central Asia from entering the Indian subcontinent?

Ans  1. Indian plains

2. Indian desert

3. Coastal area

4. Himalayas

Q.9 Which state initiated the implementation of the Mid-day Meal scheme in elementary schools?

Ans  1. Tamil Nadu

2. Madhya Pradesh

3. Uttar Pradesh

4. Karnataka

Q.10 In the 7th Century AD, a new religion called Islam was born in \_\_\_\_\_.

Ans  1. Malaysia

2. South Africa

3. Arabia

4. Indonesia

Q.11 Who among the following freedom fighters of India is the author of the book, 'The Indian Struggle'?

Ans  1. Mahatma Gandhi

2. Motilal Nehru

3. Vallabhbhai Patel

4. Subhas Chandra Bose

**Q.12** Which of the following Articles of the Indian Constitution mentions about the organisation of 'Village Panchayats'?

- Ans**
- 1. Article 31
  - 2. Article 38
  - 3. Article 36
  - 4. Article 40

**Q.13** Sitar maestro, Pandit Ravi Shankar was awarded which of the following awards by the Government of India in 1999?

- Ans**
- 1. Padma Shri
  - 2. Padma Bhushan
  - 3. Bharat Ratna
  - 4. Padma Vibhushan

**Q.14** 'Au' is the symbol for which of the following elements?

- Ans**
- 1. Gold
  - 2. Aluminium
  - 3. Silver
  - 4. Argon

**Q.15** Which of the following options is associated with the class of cold-blooded animals?

- Ans**
- 1. Chameleon
  - 2. Pavo
  - 3. Macropus
  - 4. Psittacula

**Q.16** Which Article of the Constitution of India grants power to the President to appoint Judges of the Supreme Court?

- Ans**
- 1. Article 124(2)
  - 2. Article 123(1)
  - 3. Article 127(3)
  - 4. Article 128(4)

**Q.17** In which year was the International Olympic Committee formed?

- Ans**
- 1. 1896
  - 2. 1892
  - 3. 1898
  - 4. 1894

**Q.18** To which group do the alkaline earth metals such as radium, barium and strontium belong?

- Ans**
- 1. Group 5A
  - 2. Group 2A
  - 3. Group 1A
  - 4. Group 3A

**Q.19** In which of the following games is one player known as the Wicketkeeper?

- Ans**
- 1. Football
  - 2. Basketball
  - 3. Cricket
  - 4. Hockey

Q.20 Which of the following is the transboundary river between India and Pakistan?

- Ans
- 1. Indus
  - 2. Ravi
  - 3. Beas
  - 4. Jhelum

Q.21 According to the Agricultural and Processed food products Export Development Authority (APEDA) 2020-2021, which state of India has the first rank in grapes production?

- Ans
- 1. Maharashtra
  - 2. Karnataka
  - 3. Bihar
  - 4. Uttar Pradesh

Q.22 Gautamiputra Satakarni titled Rajaraja and Maharaja is related to which of the following dynasties?

- Ans
- 1. Shunga
  - 2. Pandya
  - 3. Satavahana
  - 4. Shaka

Q.23 Which of the following has the highest salinity?

- Ans
- 1. Great salt lake
  - 2. Lake Van
  - 3. Red sea
  - 4. Dead sea

Q.24 Which of the following Articles of the Indian Constitution contains Fundamental Duties?

- Ans
- 1. 32A
  - 2. 45A
  - 3. 62B
  - 4. 51A

Q.25 Mohiniyattam is associated with which of the following traditional dance styles?

- Ans
- 1. Samapadam
  - 2. Tribhanga
  - 3. Chowk
  - 4. Lasya style

Section : Quantitative Aptitude

Q.1 Find the values of x, y and z, so as to satisfy the equations given below:  
 $x + y + z = 12$ ;  $x + y - z = 6$ ;  $x - y + z = 4$

- Ans
- 1.  $x = 5, y = 4, z = -3$
  - 2.  $x = 5, y = -4, z = 3$
  - 3.  $x = 5, y = 4, z = 3$
  - 4.  $x = 5, y = -4, z = -3$

Q.2 A policeman noticed a thief at a distance of 500 metres. The policeman started running and the thief also started running at the same time. The thief is running at a speed of 15 km/h. It took 15 minutes for the policeman to catch the thief. Find the speed of the policeman (in km/h).

- Ans
- 1. 11
  - 2. 17
  - 3. 12
  - 4. 10

Q.3 The given table shows the number of books on different subjects.

Subjects	Number of books
B1	120
B2	150
B3	150
B4	120
B5	120

What is the ratio of the number of books for subject B1 to the average number of books per subject?

- Ans
- 1. 3 : 5
  - 2. 10 : 11
  - 3. 4 : 5
  - 4. 2 : 5

Q.4 If  $A:B = 6 : 8$  and  $B:C = 5 : 12$ , then  $A:B:C$  is:

- Ans
- 1. 11:32:44
  - 2. 10:23:14
  - 3. 14:31:28
  - 4. 15:20:48

Q.5 If  $2 \tan \theta = 3$ , then  $\frac{3 \sin \theta - 2 \cos \theta}{3 \sin \theta + 2 \cos \theta}$  is equal to:

- Ans
- 1.  $\frac{6}{13}$
  - 2.  $\frac{6}{7}$
  - 3.  $\frac{5}{7}$
  - 4.  $\frac{5}{13}$

Q.6 If  $p \cos A = 2q \sin A$  and  $2p \operatorname{cosec} A - q \sec A = 3$ , then the value of  $p^2 + 4q^2$  is:

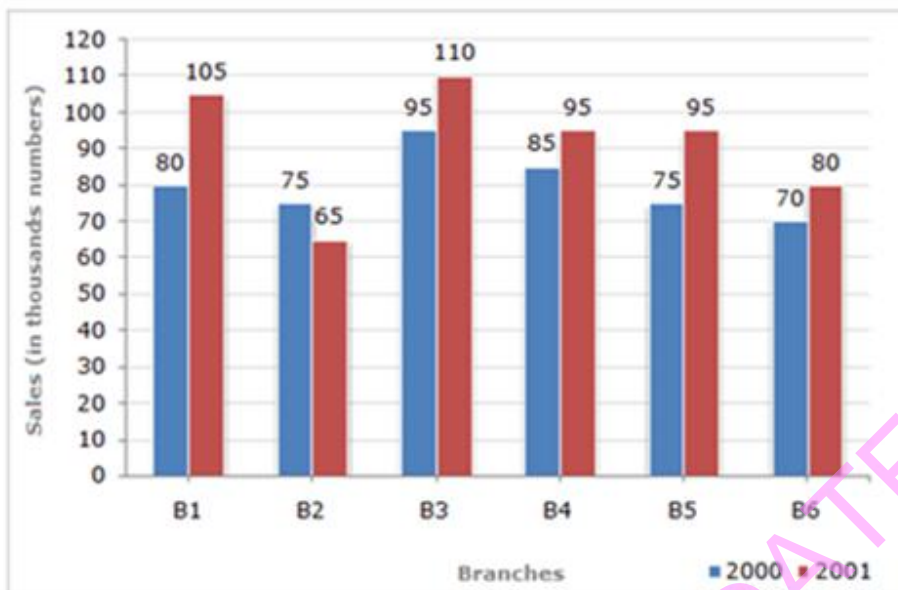
- Ans
- 1. 2
  - 2. 4
  - 3. 1
  - 4. 3

Q.7  $\triangle EFG$  and  $\triangle HIJ$  are similar. Also,  $\angle E = \angle H$  and  $\angle F = \angle I$ . If  $3EF = HI$  and  $FG = 9$  cm, then  $IJ$  is equal to \_\_\_\_.

- Ans
- 1. 9 cm
  - 2. 27 cm
  - 3. 3 cm
  - 4. 18 cm

Q.8 Study the given bar-graph and answer the question that follows.

The bar-graph shows the sales of books (in thousands) from six branches (B1, B2, B3, B4, B5 and B6) of a publishing company during two consecutive years 2000 and 2001.



The total sales of branch B6 for both the years is what percentage of the total sales of branch B3 for both the years (correct up to two decimal places)?

- Ans
- 1. 70.69%
  - 2. 73.17%
  - 3. 69.25%
  - 4. 82.26%

Q.9 Places A and B are 20 km apart on the highway. A car starts from A and another from B at the same time. If the cars travel in the same direction at different speeds, they meet in one hour. If they travelled towards each other, they met in 12 minutes. What are the speeds (in km/h) of two cars?

- Ans
- 1. 60, 40
  - 2. 52, 48
  - 3. 51, 49
  - 4. 55, 45

Q.10 If  $45^\circ$  and  $65^\circ$  are the angles of a triangle, then find the exterior angle of the third angle (remaining angle).

- Ans
- 1.  $110^\circ$
  - 2.  $120^\circ$
  - 3.  $70^\circ$
  - 4.  $100^\circ$

Q.11 A right triangle with sides 3 cm, 4 cm and 5 cm is rotated about the sides of 3 cm to form a cone. The volume of the cone so formed is:

- Ans
- 1.  $20\pi$  cm<sup>3</sup>
  - 2.  $16\pi$  cm<sup>3</sup>
  - 3.  $25\pi$  cm<sup>3</sup>
  - 4.  $28\pi$  cm<sup>3</sup>



Q.12 Pipe L can fill a pool in 30 hours and pipe M in 45 hours. If both the pipes are opened in an empty pool, how much time will they take to fill it?

- Ans
- 1. 24 hours
  - 2. 17 hours
  - 3. 18 hours
  - 4. 20 hours

Q.13 If  $\sqrt{x} + \frac{1}{\sqrt{x}} = 7$ , then the value of  $x + \frac{1}{x}$  is equal to:

- Ans
- 1. 47
  - 2. 49
  - 3. 51
  - 4. 45

Q.14 A merchant has 1000 kg of sugar, part of which he sells at a 10% profit and the rest at a 40% profit. He gains 20% on the whole. The quantity sold at 40% profit is:

- Ans
- 1.  $543\frac{1}{3}$  kg
  - 2.  $383\frac{1}{3}$  kg
  - 3.  $333\frac{1}{3}$  kg
  - 4.  $443\frac{1}{3}$  kg

Q.15 Akshay purchased pens and notebooks from a shop for a total sum of ₹180. From the following data, what is the value of 'X'?

Items	Price per unit (in ₹)	Quantity
Pens	10	X
Notebooks	20	6

- Ans
- 1. 4
  - 2. 6
  - 3. 5
  - 4. 7

Q.16 The concentrations of three acids, A, B, and C, are specified as 20%, 30%, and 40%, respectively. They are blended in a ratio of 3 : 5 : a, yielding a solution with a concentration of 30%. What is the value of 'a'?

- Ans
- 1. 3
  - 2. 1
  - 3. 2
  - 4. 4

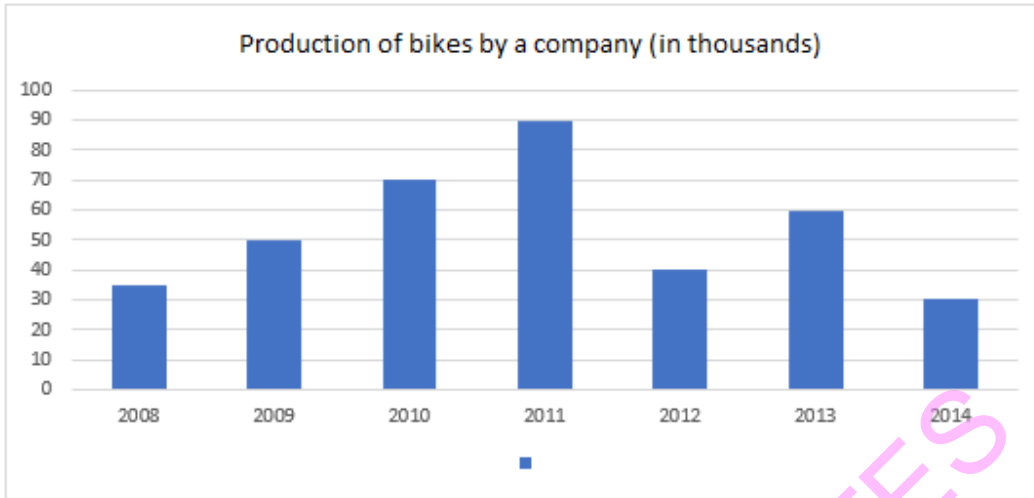
Q.17 Simplify  $\frac{0.58 \times 0.58 \times 0.58 - 0.001}{0.58 \times 0.58 + 0.058 + 0.01}$ .

- Ans
- 1. 0.48
  - 2. 0.28
  - 3. 0.37
  - 4. 0.42

Q.18 Ravi's salary was increased by 50%. After some time, his new salary was also increased by 50%. Find his gain percentage of salary.

- Ans
- 1. 125%
  - 2. 100%
  - 3. 200%
  - 4. 150%

Q.19 The given bar graph shows the production of bikes by a company (in thousands) over the years.



In how many of the given years was the production of bikes more than the average production of bikes over the years?.

- Ans
- 1. 1 year
  - 2. 2 years
  - 3. 3 years
  - 4. 4 years

Q.20 If  $\cot\theta = 4/3$ , then evaluate  $(\sec\theta(1 + \cot^2\theta)(\operatorname{cosec}^2\theta - \cot^2\theta))/\operatorname{cosec}^3\theta$ .

- Ans
- 1.  $3/4$
  - 2.  $4/5$
  - 3.  $4/3$
  - 4.  $3/5$

Q.21 If  $(77^{77}+77)$  is divided by 78, then the remainder will be:

- Ans
- 1. 76
  - 2. 77
  - 3. 78
  - 4. 1

Q.22 Two successive discounts of 40% and 30% are equal to a single discount of:

- Ans
- 1. 70%
  - 2. 35%
  - 3. 58%
  - 4. 60%

Q.23 In a circle of radius  $5\sqrt{13}$  cm, a chord is at a distance of 10 cm from the centre of the circle. Find the length (in cm) of the chord.

- Ans
- 1. 30
  - 2. 28
  - 3. 36
  - 4. 15

Q.24 What annual instalment will discharge a debt of ₹26,160 due in 4 years at 6% simple interest p.a.?

- Ans
- 1. ₹4,500
  - 2. ₹5,500
  - 3. ₹6,000
  - 4. ₹5,800

Q.25 **Simplify**

$$21 - [6 + 7 - \{3.22 - (1.1 \times 0.2)\}].$$

- Ans
- 1. 13
  - 2. 12
  - 3. 11
  - 4. 10

Section : English Comprehension

Q.1 Select the most appropriate ANTONYM of the underlined word.  
Their sporting achievements at the highest level are being utterly ignored.

- Ans
- 1. Extremely
  - 2. Correctly
  - 3. Minimally
  - 4. Totally

Q.2 Select the most appropriate synonym of the given word.  
Stationary

- Ans
- 1. Motile
  - 2. Portable
  - 3. Swindle
  - 4. Still

Q.3 Select the most appropriate option that can substitute the underlined words in the given sentence.  
Rare species of frogs were very quicker identified by Stella.

- Ans
- 1. to frogs were very quickly
  - 2. of frogs were very quickly
  - 3. in frogs were very quicker
  - 4. of frogs were very quicklier

Q.4 Select the most appropriate ANTONYM of the underlined word in the following sentence to fill in the blank.  
Most of the flowers bloom in the spring season but they start to \_\_\_\_\_ during summer.

- Ans
- 1. flush
  - 2. wither
  - 3. flourish
  - 4. blossom

Q.5 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

O. delicious  
R. she  
Q. a  
P. baked  
S. chocolate cake

- Ans
- 1. RPQOS
  - 2. QOSRP
  - 3. OPQRS
  - 4. SRPQO

**Q.6** Select the most appropriate meaning of the phrase in bold.  
Your so-called friend has cooked your goose.

- Ans**
- 1. To complete a lot of work or a wide range of things
  - 2. When something develops completely and reaches maturity; when a child becomes an adult
  - 3. To spend a lot of time and energy but achieve nothing
  - 4. To interfere with, disrupt or ruin something for someone

**Q.7** Select the option that can be used as a one word substitute for the given group of words.  
An often-imaginary place or state of utter perfection and happiness

- Ans**
- 1. Inferno
  - 2. Dystopia
  - 3. Euphoria
  - 4. Utopia

**Q.8** Select the most appropriate ANTONYM of the given word.

**Risible**

- Ans**
- 1. Serious
  - 2. Curious
  - 3. Droll
  - 4. Giddy

**Q.9** Select the most appropriate option that can substitute the underlined words in the given sentence.  
He was an irresponsible person to the matter of taking up responsibilities.

- Ans**
- 1. at the matter of taking up
  - 2. in the matter of taking up
  - 3. by the matter of taking up
  - 4. along the matter of taking up

**Q.10** Select the correct spelling to fill in the blank.

Subir's long absence is likely to have \_\_\_\_\_ for employees in the office.

- Ans**
- 1. repercussions
  - 2. repercussions
  - 3. reperrcussions
  - 4. rapercussions

**Q.11** Select the correctly spelt word.

- Ans**
- 1. Privelege
  - 2. Priviledge
  - 3. Privilege
  - 4. Privilej

**Q.12** Select the option that correctly expresses the given sentence in passive voice.

The shareholders will elect him a director.

- Ans**
- 1. He will be elected as director by the shareholders.
  - 2. The shareholders have elected him a director.
  - 3. The shareholders elected him a director.
  - 4. He will be elected a director.

**Q.13** What does the idiom 'Bite the bullet' mean?

- Ans**
- 1. Enjoy a delicious meal
  - 2. Face a difficult situation with courage
  - 3. Avoid confrontation
  - 4. Give someone a piece of advice

**Q.14** In the given question, a statement divided into different segments is given. Rearrange all the segments to form a coherent statement.

O: its first constitution  
P: and soon got himself elected  
Q: the administration of the country  
R: general Ayub Khan took over  
S: after Pakistan framed

- Ans**
- 1. SORQP
  - 2. SPORQ
  - 3. POSRQ
  - 4. ROPQS

**Q.15** Select the most appropriate synonym of the given word.  
Pugnacious

- Ans**
- 1. Ally
  - 2. Belligerent
  - 3. Sly
  - 4. Dogmatic

**Q.16** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. It is also called a nuclear family.  
B. It is good to be in a small family because there is better management of resources.  
C. A small family is one with parents and a maximum of two children.  
D. The advantages of a small family are numerous.

- Ans**
- 1. CADB
  - 2. BACD
  - 3. CBDA
  - 4. ACBD

**Q.17** Parts of the following sentence have been given as options. Select the option that contains an error.  
No other place in this country is so better as Gulmarg, Kashmir.

- Ans**
- 1. No other place
  - 2. in this country is
  - 3. so better as
  - 4. Gulmarg, Kashmir

**Q.18** Select the option that expresses the following sentence in active voice.  
The letter will be delivered by the postman tomorrow.

- Ans**
- 1. The postman delivered the letter tomorrow
  - 2. The postman will have delivered the letter tomorrow.
  - 3. The postman will deliver the letter tomorrow.
  - 4. The postman will be delivering the letter tomorrow.

**Q.19** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
Our family is planning / a trip to Europe next summer / where we should visit several famous / landmarks and enjoy local cuisine.

- Ans**
- 1. where we should visit several famous
  - 2. Our family is planning
  - 3. landmarks and enjoy local cuisine
  - 4. a trip to Europe next summer

**Q.20** Select the most appropriate ANTONYM of the underlined word in the following sentence to fill in the blank.  
Most of the land near the town is barren, but the efforts of the farmers have turned it \_\_\_\_\_.

- Ans**
- 1. sterile
  - 2. infertile
  - 3. fertile
  - 4. unfruitful

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Americans have been arguing about pandemic (1) \_\_\_\_\_ for two years, and the debate is particularly fraught among parents of small children, for good reasons. While (2) \_\_\_\_\_ such as masking and isolation mean temporary discomfort or inconvenience for most people, their (3) \_\_\_\_\_ for still-developing young children are more mysterious, and possibly more significant and lasting.

Children with speech or language disorders offer perhaps the (4) \_\_\_\_\_ example of these murky trade-offs. Pandemic restrictions vary by state, county and school district, but I spoke with parents in California, New York, Massachusetts, Washington, New Jersey, Iowa and Maryland, who said their children's speech therapy has been (5) \_\_\_\_\_: first by the loss of in-person therapy and then by masking requirements, in places that have them.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank no. 1

- Ans**
- 1. restrictions
  - 2. intemperance
  - 3. advantages
  - 4. handicap

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Americans have been arguing about pandemic (1) \_\_\_\_\_ for two years, and the debate is particularly fraught among parents of small children, for good reasons. While (2) \_\_\_\_\_ such as masking and isolation mean temporary discomfort or inconvenience for most people, their (3) \_\_\_\_\_ for still-developing young children are more mysterious, and possibly more significant and lasting.

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**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank no. 2

- Ans**
- 1. brandings
  - 2. measures
  - 3. models
  - 4. sluggishness

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Americans have been arguing about pandemic (1) \_\_\_\_\_ for two years, and the debate is particularly fraught among parents of small children, for good reasons. While (2) \_\_\_\_\_ such as masking and isolation mean temporary discomfort or inconvenience for most people, their (3) \_\_\_\_\_ for still-developing young children are more mysterious, and possibly more significant and lasting.

Children with speech or language disorders offer perhaps the (4) \_\_\_\_\_ example of these murky trade-offs. Pandemic restrictions vary by state, county and school district, but I spoke with parents in California, New York, Massachusetts, Washington, New Jersey, Iowa and Maryland, who said their children's speech therapy has been (5) \_\_\_\_\_: first by the loss of in-person therapy and then by masking requirements, in places that have them.

**SubQuestion No : 23****Q.23 Select the most appropriate option to fill in blank no. 3**

- Ans**
- 1. marginalisation
  - 2. foundations
  - 3. disapproval
  - 4. consequences

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Americans have been arguing about pandemic (1) \_\_\_\_\_ for two years, and the debate is particularly fraught among parents of small children, for good reasons. While (2) \_\_\_\_\_ such as masking and isolation mean temporary discomfort or inconvenience for most people, their (3) \_\_\_\_\_ for still-developing young children are more mysterious, and possibly more significant and lasting.

Children with speech or language disorders offer perhaps the (4) \_\_\_\_\_ example of these murky trade-offs. Pandemic restrictions vary by state, county and school district, but I spoke with parents in California, New York, Massachusetts, Washington, New Jersey, Iowa and Maryland, who said their children's speech therapy has been (5) \_\_\_\_\_: first by the loss of in-person therapy and then by masking requirements, in places that have them.

**SubQuestion No : 24****Q.24 Select the most appropriate option to fill in blank no. 4.**

- Ans**
- 1. clearest
  - 2. vague
  - 3. indistinct
  - 4. nebulous

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Americans have been arguing about pandemic (1) \_\_\_\_\_ for two years, and the debate is particularly fraught among parents of small children, for good reasons. While (2) \_\_\_\_\_ such as masking and isolation mean temporary discomfort or inconvenience for most people, their (3) \_\_\_\_\_ for still-developing young children are more mysterious, and possibly more significant and lasting.

Children with speech or language disorders offer perhaps the (4) \_\_\_\_\_ example of these murky trade-offs. Pandemic restrictions vary by state, county and school district, but I spoke with parents in California, New York, Massachusetts, Washington, New Jersey, Iowa and Maryland, who said their children's speech therapy has been (5) \_\_\_\_\_: first by the loss of in-person therapy and then by masking requirements, in places that have them.

**SubQuestion No : 25****Q.25 Select the most appropriate option to fill in blank no. 5.**

- Ans**
- 1. disrupted
  - 2. regulated
  - 3. measured
  - 4. normalised

## Combined Graduate Level Examination 2024 Tier I

Exam Date	10/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Select the set in which the numbers are related in the same way as are the numbers of the following set.

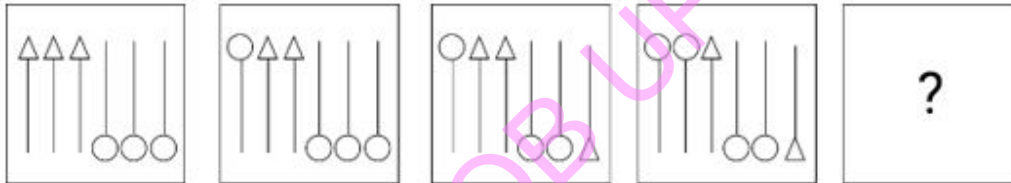
(121, 93, 214)

(115, 87, 202)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. (135, 117, 259)
  - 2. (110, 94, 224)
  - 3. (84, 99, 189)
  - 4. (97, 112, 209)

**Q.2** Select the figure from among the given options that can replace the question mark (?) in the following series.

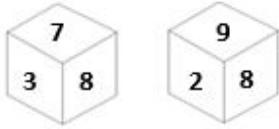


**Ans**

- 1.
- 2.
- 3.
- 4.

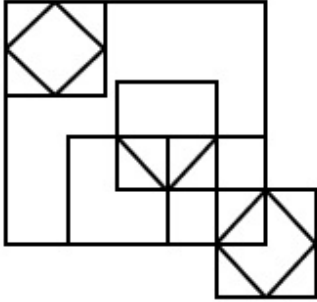


Q.3 Two different positions of the same dice with faces 3, 7, 8, 2, 9 and 4 are shown below. Select the number that will be on the face opposite to the one having 4.



- Ans
- 1. 8
  - 2. 3
  - 3. 9
  - 4. 2

Q.4 How many squares are there in the given figure?



- Ans
- 1. 11
  - 2. 10
  - 3. 12
  - 4. 13

Q.5 Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Presence : Abundance

- Ans
- 1. Nourish : Neglect
  - 2. Infinite : Cosmic
  - 3. Abstract : Concrete
  - 4. Concise : Verbose

Q.6 Six letters K, L, M, N, O and P are written on different faces of a dice. Three positions of this dice are shown in the figure. Find the letter on the face opposite to M.



- Ans
- 1. P
  - 2. N
  - 3. K
  - 4. L

Q.7 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$15 \times 9 + 7 \div 26 - 13 = ?$$

- Ans
- 1. 68
  - 2. 72
  - 3. 76
  - 4. 84

Q.8 In a certain code language,

'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A × B' means 'A is the wife of B' and  
'A ÷ B' means 'A is the father of B'.

Based on the above, how is 5 related to 3 if '5 - 2 × 4 ÷ 3'?

- Ans
- 1. Father's sister
  - 2. Mother's brother
  - 3. Father's brother
  - 4. Mother's sister

Q.9 Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group? ( Note :The odd one out is not based on the number of consonants/vowels or their position in the letter cluster)

- Ans
- 1. EJM
  - 2. DIM
  - 3. FKN
  - 4. CHK

Q.10 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?

Y	X	P	Y	E	P	4	E
	P		E		4		X
E		4	4	X	X	Y	Y
							P

Ans

1.

X		4
	E	
Y		P

2.

X		E
	Y	
4		P

3.

X		4
	Y	
E		P

4.

X		4
	Y	
P		E

Q.11 62 is related to 79 following certain logic. Following the same logic, 98 is related to 119. To which of the following numbers is 14 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 24
  - 2. 23
  - 3. 19
  - 4. 21

Q.12 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?  
NUT, RYX, VCB, ZGF, ?

- Ans
- 1. EKJ
  - 2. DKL
  - 3. EKL
  - 4. DKJ

Q.13 Which of the following numbers will replace the question marks (?) in the given series?  
4, ?, ?, 49, 121, 169, 289

- Ans
- 1. 9, 16
  - 2. 9, 25
  - 3. 3, 9
  - 4. 16, 25

Q.14 All of the letters in the word 'WISDOM' are arranged in alphabetical order. How many letters are there in the English alphabetical series between the letter which is third from the left end and the one which is second from the right end in the new letter-cluster thus formed?

- Ans
- 1. Three
  - 2. Six
  - 3. Five
  - 4. Two

Q.15 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans
- 1. dg74reT
  - 2. dg74reT
  - 3. dg74reT
  - 4. gb74reT

Q.16 Select the number that will come in the place of the question mark(?), if '+' and '-' are interchanged and 'x' and '÷' are interchanged

$$11 \div 12 - 78 \times 6 + 57 = ?$$

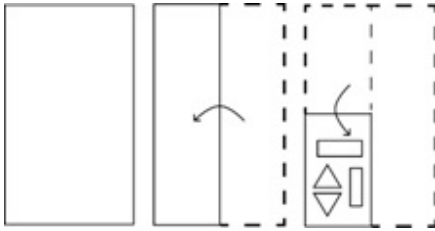
- Ans
- 1. 74
  - 2. 95
  - 3. 83
  - 4. 88

Q.17 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1.  $81 - 118 - 91$
  - 2.  $52 - 68 - 51$
  - 3.  $99 - 104 - 71$
  - 4.  $21 - 38 - 31$

Q.18 The sequence of folding a paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



Ans

- 1.
- 2.
- 3.
- 4.

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Q.19 Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

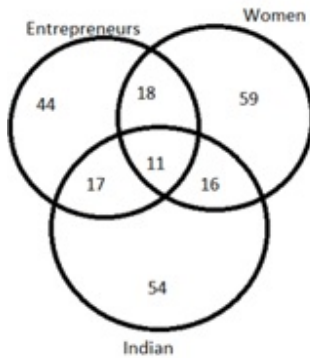
P Q \_ S \_ P P Q P \_ A P P Q \_ S A P \_ Q

- Ans
- 1. QPASP
  - 2. PQSAP
  - 3. PASPP
  - 4. QSPAP

Q.20 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.  
SWEET : WSETE :: SALTY : ASLYT :: DRINK : ?

- Ans
- 1. RDIKN
  - 2. ESJOL
  - 3. RDNIK
  - 4. DRIKN

Q.21 Study the given Venn diagram and answer the question that follows.



How many women entrepreneurs are NOT Indian?

- Ans
- 1. 11
  - 2. 17
  - 3. 29
  - 4. 18

Q.22 In a certain code language, 'make some more' is coded as 'pb qq st' and 'need more time' is coded as 'ru ek qq'. What is the code for 'more' in that language?

- Ans
- 1. st
  - 2. ek
  - 3. qq
  - 4. pb

Q.23 Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
(173, 246)  
(148, 196)

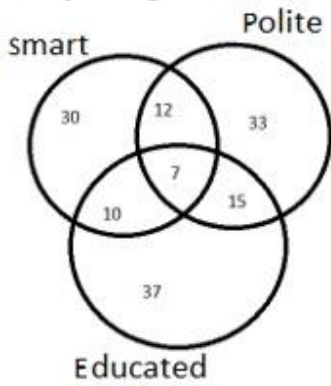
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. (142, 176)
  - 2. (169, 247)
  - 3. (127, 194)
  - 4. (154, 208)

Q.24 In a certain code language, 'VERY' is written as '6314' and 'VARY' is written as '1438'. How will 'A' be written in that language?

- Ans
- 1. 6
  - 2. 8
  - 3. 4
  - 4. 1

Q.25 Study the given Venn diagram and answer the question that follows.



How many smart people are polite?

- Ans
- 1. 19
  - 2. 63
  - 3. 12
  - 4. 7

Section : General Awareness

Q.1 Rudrasena II of which of the following dynasties married Prabhavatigupta, the daughter of Chandragupta II of the Gupta dynasty?

- Ans
- 1. Pushyabhuti
  - 2. Vakataka
  - 3. Chalukya
  - 4. Pallava

Q.2 Madhuri Barthwal, a folk singer and Padma Shri 2022 awardee, belongs to which of the following states of India?

- Ans
- 1. Uttarakhand
  - 2. Himachal Pradesh
  - 3. Uttar Pradesh
  - 4. Maharashtra

Q.3 Which of the following options is the legislative organ of the Union government?

- Ans
- 1. Judiciary
  - 2. Legislative assembly
  - 3. Executive
  - 4. Parliament

Q.4 Which of the following elements is a metalloid?

- Ans
- 1. Iron
  - 2. Oxygen
  - 3. Sodium
  - 4. Silicon

Q.5 Which country has the Republic feature of the Indian Constitution been borrowed from?

- Ans
- 1. French Constitution
  - 2. Irish Constitution
  - 3. British Constitution
  - 4. Australian Constitution

**Q.6** Which of the following States has declared a social security scheme for registered newspaper hawkers in the State in 2021 considering the losses they faced during the pandemic and that they are a part of the unorganised sector?

- Ans**
- 1. Gujarat
  - 2. Maharashtra
  - 3. Odisha
  - 4. Tamil Nadu

**Q.7** Which of the following is the main cause of land degradation in Jharkhand and Chhattisgarh?

- Ans**
- 1. Intensive use of manure
  - 2. Over-irrigation
  - 3. Deforestation due to mining
  - 4. Overgrazing

**Q.8** The Accelerated Female Literacy Programme was initiated in districts where the female literacy rate, based on the 2001 census, was \_\_\_\_\_.

- Ans**
- 1. below 35%
  - 2. below 45%
  - 3. below 30%
  - 4. below 50%

**Q.9** As of 2021, which is the world's largest drainage basin with an area of about 70,00,000 km<sup>2</sup>?

- Ans**
- 1. Congo basin
  - 2. Amur basin
  - 3. Amazon basin
  - 4. Nile basin

**Q.10** National Sports University is situated in \_\_\_\_\_.

- Ans**
- 1. Mizoram
  - 2. Tripura
  - 3. Meghalaya
  - 4. Manipur

**Q.11** Which of the following characteristics is NOT of Aves?

- Ans**
- 1. They have four-chambered heart.
  - 2. They give birth to live young ones with some exceptions those lay eggs.
  - 3. These are warm-blooded animals.
  - 4. They breathe through the lungs

**Q.12** In which of the following states is the development of rail transport less, due to its geographical conditions?

- Ans**
- 1. Sikkim
  - 2. Haryana
  - 3. Bihar
  - 4. Uttar Pradesh

**Q.13** Which of the following books is INCORRECTLY paired with its respective author?

- Ans**
- 1. Hind Swaraj – Mahatma Gandhi
  - 2. Gitanjali – Rabindranath Tagore
  - 3. The Discovery of India – Subhash Chandra Bose
  - 4. Why I am an Atheist – Bhagat Singh

**Q.14** Who among the following was a poet who won Nobel Prize for literature in 1913?

- Ans**
- 1. Aurobindo Ghose
  - 2. Rudyard Kipling
  - 3. Bankin Chandra Chattopadhyay
  - 4. Rabindranath Tagore

**Q.15** In which year was the National Institute of Kathak Dance established?

- Ans**
- 1. 1964
  - 2. 1961
  - 3. 1954
  - 4. 1969

**Q.16** As for the year 2020-21, which of the following states had the lowest unemployment rate among persons aged 15 years and above?

- Ans**
- 1. Sikkim
  - 2. Madhya Pradesh
  - 3. Gujarat
  - 4. Chhattisgarh

**Q.17** When was the Indian Hockey Federation established?

- Ans**
- 1. 1925
  - 2. 1955
  - 3. 1945
  - 4. 1935

**Q.18** Which cell organelle is defined as the small round organelle that undergoes oxidation reaction to produce hydrogen peroxide?

- Ans**
- 1. Centrosome
  - 2. Vacuole
  - 3. Nucleus
  - 4. Peroxisomes

**Q.19** The cause of a redox reaction is the:

- Ans**
- 1. transfer of electrons between two reactants
  - 2. transfer of electrons between two products
  - 3. transfer of neutrons between two reactants
  - 4. exchange of halogens between two reactants

**Q.20** 'Sangken' is a festival celebrated in Arunachal Pradesh by people of which of the following religions?

- Ans**
- 1. Islam
  - 2. Buddhism
  - 3. Jainism
  - 4. Hinduism

**Q.21** Which group of people will be benefited by the Mukhya Mantri Sukh Ashray Yojana approved by Himachal Pradesh?

- Ans**
- 1. Students and teachers
  - 2. Orphans, specially abled children, destitute women and senior citizens
  - 3. Unemployed youth
  - 4. Farmers and agricultural labourers



**Q.22** What is the aim of the PM Ujjwala 2.0 Yojna launched in August 2021?

- Ans**
- 1. Free LPG connections for commercial use
  - 2. 20 million LPG connections will be provided to the beneficiaries
  - 3. 10 million LPG connections will be provided to the beneficiaries
  - 4. Free gas stove for BPL Households

**Q.23** MG Music Awards is presented annually by which of the following states?

- Ans**
- 1. Mizoram
  - 2. Nagaland
  - 3. Manipur
  - 4. Chhattisgarh

**Q.24** If assets of a bank are greater than liabilities, it will be recorded as:

- Ans**
- 1. liabilities
  - 2. net worth
  - 3. reserves
  - 4. assets

**Q.25** Which of the following departments of Delhi Sultanate was reorganized by Balban?

- Ans**
- 1. Diwan-i-Ishtiaq
  - 2. Diwan-i-Arz
  - 3. Diwan-i-Risalat
  - 4. Diwan-i-Mustakhraj

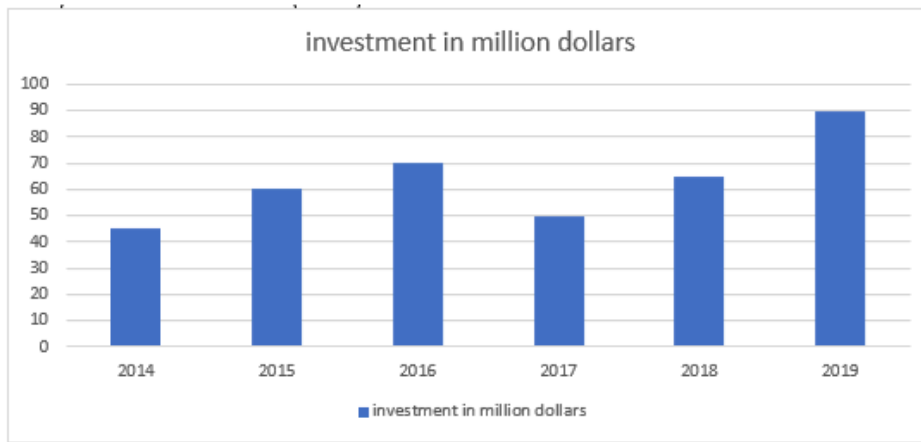
Section : Quantitative Aptitude

**Q.1** If  $45 \div 3 + 4 \times A - 48 \div 24 + 4 = 1$ , then the value of A is:

- Ans**
- 1. -2
  - 2. 4
  - 3. 2
  - 4. -4

Q.2

The given bar graph shows the foreign direct investment (in million dollars) in Country A from all over the world over the given years.



What was the ratio of investment in 2018 to that in 2015?

Ans  1. 13 : 12

2. 12 : 11

3. 11 : 12

4. 13 : 11

Q.3 If the length of a common external tangent to two circles is 9 and that of a common internal tangent is 5, then the product of the radii of the two circles is:

Ans  1. 12

2. 8

3. 14

4. 10

Q.4 If  $\triangle PQR \cong \triangle MON$  such that  $\angle PQR = 82^\circ$ ,  $\angle QRP = 47^\circ$ ,  $\angle RPQ = 51^\circ$ ,  $\angle MON = (5y - 8)^\circ$ ,  $QR = 24$  and  $ON = 3x + y$ , then find  $(x + y)$ .

Ans  1. 14

2. 18

3. 16

4. 20

Q.5 Which digits should come in the place of \* and #, respectively, if the 7-digit number 62684\*# is divisible by both 8 and 5?

Ans  1. 2 and 0

2. 4 and 0

3. 5 and 0

4. 0 and 5

Q.6 The area of a square is  $16x^2 + 40x + 25$  square units. Find the perimeter of the square.

Ans  1.  $3(10x + 8)$

2.  $3(8x + 10)$

3.  $2(10x + 8)$

4.  $2(8x + 10)$

Q.7 The average of the squares of the first 45 natural numbers is

Ans  1. 698.67

2. 699.67

3. 697.67

4. 696.67

Q.8 A rectangular piece of paper is 50 cm long and 22 cm wide. If a cylinder is formed by rolling the paper along its breadth, then the volume of the cylinder is:

Ans  1. 2,125 cm<sup>3</sup>

2. 1,925 cm<sup>3</sup>

3. 2,025 cm<sup>3</sup>

4. 1,825 cm<sup>3</sup>

Q.9 If  $x^2 + y^2 = 280$  and  $xy = 120$ , then find the value of  $\frac{x-y}{x+y}$ .

Ans  1.  $\frac{1}{\sqrt{13}}$

2.  $\sqrt{15}$

3.  $\sqrt{13}$

4.  $\frac{1}{\sqrt{15}}$

Q.10 The speed of a boat in still water is 18 km/h and the speed of the stream is 3 km/h. How much time (in hours) will it take to cover a distance of 105 km in downstream and in coming back?

Ans  1. 12

2. 10

3. 15

4. 9

Q.11 Simple interest on a certain sum is one-fifth of the sum and the interest rate per cent per annum is 5 times the number of years. If the rate of interest increases by 3%, then how much will the simple interest (in ₹) be on ₹5,600 for 6 years?

Ans  1. 4668

2. 4168

3. 4268

4. 4368

Q.12 A bronze article having a marked price of ₹1,000 is sold during a festive season sale after three successive discounts of 20% and 30% and 10%. What will be the amount (in ₹) to be paid by a customer if she buys the article during the festival season?

Ans  1. 508

2. 564

3. 504

4. 496

Q.13 Pipes P and Q can completely fill a water tank in 10 hours and 15 hours, respectively. A pipe R can empty a tank filled completely with water in 12 hours. Initially, the tank is empty and only pipes P and Q are opened at 6 a.m. and pipe R is also opened at 9 a.m. By what time will the tank be completely filled?

- Ans
- 1. 1 p.m.
  - 2. 2 p.m.
  - 3. 11 a.m.
  - 4. 3 p.m.

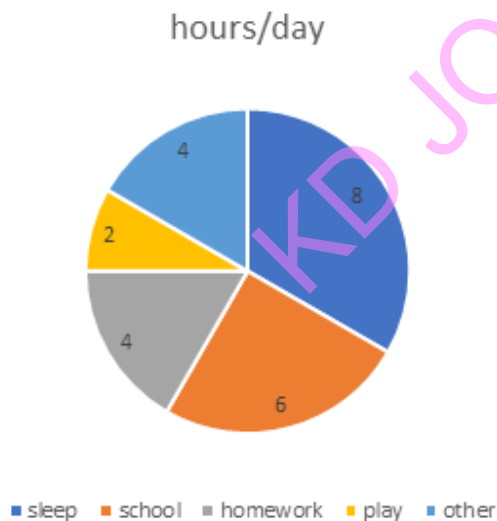
Q.14 For what value of k will the lines  $2x + 7ky - 8 = 0$  and  $x + y - 9 = 0$  have no solution?

- Ans
- 1.  $\frac{2}{7}$
  - 2.  $\frac{9}{7}$
  - 3.  $\frac{8}{9}$
  - 4.  $\frac{1}{2}$

Q.15 The radii of two circles are 5 cm and 10 cm and the distance between their centres is 17 cm. Find the length of the transverse common tangent.

- Ans
- 1. 9 cm
  - 2. 8 cm
  - 3. 6 cm
  - 4. 7.5 cm

Q.16 The pie chart given below shows the number of hours spent by a student for different activities on a working day. The percentage of hours spent at school in a day is \_\_\_\_\_.



- Ans
- 1. 25%
  - 2. 35%
  - 3. 40%
  - 4. 30%

Q.17 In an election between Sunita and Mamata, 85% of voters cast their votes but 2% of votes were invalid. If Sunita got 64,974 votes which is 78% of valid votes, then the total number of voters enrolled in the election was:

- Ans
- 1. 1,25,000
  - 2. 1,00,000
  - 3. 1,65,000
  - 4. 1,80,000

Q.18

Study the given table and answer the question that follows.

The following table shows the population of a city at the end of the years mentioned.

Year	Population
2012	64.5
2013	68.4
2014	72.6
2015	83.8
2016	100.6
2017	112.8
2018	128.4
2019	134.6
2020	156.8
2021	176.4

Which of the following years has the highest rate of increase compared to the previous year?

- Ans
- 1. 2019
  - 2. 2018
  - 3. 2015
  - 4. 2016

Q.19

$\frac{3\sin 58^\circ}{5\cos 32^\circ} + \frac{2\cos 62^\circ}{5\sin 28^\circ}$  is equal to:

- Ans
- 1. 0
  - 2. 2
  - 3. 3
  - 4. 1

Q.20

If  $7 \tan \theta = 3$ , and  $\theta$  is an acute angle, then  $\frac{5 \sin \theta - \cos \theta}{5 \sin \theta + 2 \cos \theta}$  is equal to:

- Ans
- 1.  $\frac{8}{29}$
  - 2.  $\frac{11}{29}$
  - 3.  $\frac{7}{29}$
  - 4.  $\frac{9}{29}$

Q.21

If  $7 \cos^2 \theta + 5 \sin^2 \theta - 6 = 0$ , ( $0^\circ < \theta < 90^\circ$ ), then what is the value of  $1 + \sqrt{\frac{\sec \theta + \tan \theta}{\sec \theta - \tan \theta}}$ ?

- Ans
- 1.  $\sqrt{2} + 2$
  - 2.  $\sqrt{2} + 1$
  - 3.  $\sqrt{2} - 1$
  - 4.  $\sqrt{2} - 2$

Q.22 If one man adds 6 litres of water to 10 litres of milk and another man adds 4 litres of water to 8 litres of milk. Find the ratio of milk in the two mixtures.

- Ans
- 1. 16 : 15
  - 2. 12 : 11
  - 3. 16 : 17
  - 4. 15 : 16

Q.23 A shopkeeper allows a discount of 20% on the marked price of an item and thus gains 10%. What is the ratio of the cost price to the marked price of the item?

- Ans
- 1. 8:11
  - 2. 7:10
  - 3. 9:13
  - 4. 11:14

Q.24 The table below shows incomes (in rupees) earned by five employees of a company during the month of March 2019 and the income sources.

Source/Name of Employee	Reeta	Seeta	Geeta	Neeta	Aneeta
Overtime	2,500	2,800	2,300	2,200	2,600
Arrears	4,500	4,800	4,900	5,300	5,600
Bonus	2,300	2,100	2,500	2,700	2,800
Salary	24,000	30,000	29,000	32,000	34,000

The total amount of arrears paid by the company during the given period is what percentage of the total amount of bonus paid during the given period?

- Ans
- 1. 302.42%
  - 2. 402.42%
  - 3. 102.42%
  - 4. 202.42%

Q.25 What is the central angle of a sector of a circle whose area and perimeter are, respectively, equal to  $209 \text{ cm}^2$  and  $63 \text{ cm}$  if it is given that its radius is a non-negative integer (roundup to one decimal place)?

- Ans
- 1.  $55.5^\circ$
  - 2.  $53.5^\circ$
  - 3.  $49.5^\circ$
  - 4.  $51.5^\circ$

**Q.1** Select the option that can be used as a one-word substitute for the given group of words.  
Fear of closed spaces

- Ans**
- 1. Photophobia
  - 2. Optophobia
  - 3. Agoraphobia
  - 4. Claustrophobia

**Q.2** Select the option that expresses the given sentence in passive voice.  
Historians tell us how this country was divided into three.

- Ans**
- 1. We are told by historians how this country has been divided into three.
  - 2. We are told by historians how this country divided into three.
  - 3. We are told by historians how this country was divided into three.
  - 4. We have been told by historians how this country was divided into three.

**Q.3** Select the correctly spelt word to fill in the blank.

The transistors are used as the main \_\_\_\_\_, which are built into computer chips.

- Ans**
- 1. components
  - 2. cumponents
  - 3. kamponents
  - 4. kumponents

**Q.4** Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct sequence to form a meaningful sentence.

(P) technology has revolutionised  
(Q) and it has transformed the way  
(O) every aspect of our lives  
(R) we communicate and connect

- Ans**
- 1. RPQO
  - 2. RPOQ
  - 3. POQR
  - 4. ORQP

**Q.5** Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.

The \_\_\_\_\_ to the venue was decorated with beautiful lights. [exit]

- Ans**
- 1. house
  - 2. road
  - 3. entry
  - 4. ceremony

**Q.6** Select the most appropriate meaning of the given idiom.

Care a hang

- Ans**
- 1. Hanging clothes to dry
  - 2. Putting an outfit on a hanger
  - 3. Caring too much
  - 4. Showing no interest

**Q.7** Select the option that expresses the given sentence in passive voice.

The company will launch the new product next month, and they are already promoting it through various marketing channels.

- Ans**
- 1. The new product will be launched by the company next month, and it is already being promoted through various marketing channels.
  - 2. The new product were been launched by the company next month, and it already was promoting through various marketing channels.
  - 3. The new product was launched by the company next month, and it is already promoted through various marketing channels.
  - 4. The new product will have been launched by the company next month, and it was already being promoted through various marketing channels.

**Q.8** Select the most appropriate ANTONYM of the given word.  
**Mechanical**

- Ans**
- 1. Surrogate
  - 2. Automatised
  - 3. Yielding
  - 4. Manual

**Q.9** Select the most appropriate meaning of the underlined word.  
Solomon's reputation as an accountant is taintless .

- Ans**
- 1. flawed
  - 2. faultless
  - 3. dubious
  - 4. inconsistent

**Q.10** The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.

My sister, Juliet, / got married / as her / was 23.

- Ans**
- 1. was 23.
  - 2. as her
  - 3. My sister, Juliet,
  - 4. got married

**Q.11** Select the option that can be used as a one-word substitute for the given group of words.

a short section (as of a book) that leads to or explains the main part.

- Ans**
- 1. Foreword
  - 2. Conclusion
  - 3. Postscript
  - 4. Paraphrase

**Q.12** Select the INCORRECTLY spelt word.

- Ans**
- 1. Verminous
  - 2. Vomitus
  - 3. Voluptuous
  - 4. Verifiability

**Q.13** Select the most appropriate option to substitute the underlined word in the given sentence.  
Mayra has the ability for mathematics.

- Ans**
- 1. astute
  - 2. altitude
  - 3. aptitude
  - 4. attitude



Q.14 Select the word which means the same as the group of words given.

Choice between two unsatisfactory alternatives

- Ans
- 1. Dilemma
  - 2. Problem
  - 3. Confusion
  - 4. Difficulty

Q.15 Parts of the following sentence have been underlined and given as options. Select the option that contains an error.  
The supermarket is open from 10 a.m. still 10 p.m.

- Ans
- 1. open
  - 2. from 10 a.m.
  - 3. The supermarket
  - 4. still 10 p.m.

Q.16 Select the most appropriate option to substitute the underlined segment in the given sentence.  
To tell others secret information only for enjoyment is not a good practice.

- Ans
- 1. spill the words
  - 2. spill the cat
  - 3. spill the onions
  - 4. spill the beans

Q.17 Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.

The media, these days, constructs \_\_\_\_\_(misleading) narratives on politics and celebrities to increase the viewership.

- Ans
- 1. sincere
  - 2. true
  - 3. candid
  - 4. mendacious

Q.18 Select the most appropriate option to fill in the blank.

The group of travellers were wonderstruck by the \_\_\_\_\_ of the coin.

- Ans
- 1. wait
  - 2. white
  - 3. wide
  - 4. weight

Q.19 Select the most appropriate synonym of the given word.  
Evaluate

- Ans
- 1. Misjudge
  - 2. Assess
  - 3. Unity
  - 4. Misquote

Q.20 Select the option that can substitute/replace the bracketed word correctly and complete the sentence.

They could (always) stay in, or go for a walk.

- Ans
- 1. had better
  - 2. not only
  - 3. either
  - 4. neither

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As a result of Covid-19, the quick (1) \_\_\_\_\_ to digital training has exposed the hazards of student disengagement and the resulting consequences of lower student performance across (2) \_\_\_\_\_ courses.

The latest (3) \_\_\_\_\_ has altered the education of millions of people around the world. New approaches and improvements in the school system are urgently required. Considering the increasing digital divide, the strategy may exacerbate existing inequality disparities. More than 500 million students, at various levels, around the world were forced to (4) \_\_\_\_\_ their studies. These changes have caused and will continue to cause some inconvenience, but they will also foster innovation and future reforms inside this education system.

During a global Covid-19 pandemic, the 'pile-on effect' of the coronavirus can have long-term consequences for schooling, notably for the most vulnerable. Children, (5) \_\_\_\_\_ basic, core learning (reading, math, languages, etc.) was weak to begin with, face a significant risk of regression. During Covid-19, millions of children whose right to education has already been violated, particularly girls, are exposed to greater health and well-being hazards (both psychosocial and physical).

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. end
  - 2. transition
  - 3. set
  - 4. stagnation

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As a result of Covid-19, the quick (1) \_\_\_\_\_ to digital training has exposed the hazards of student disengagement and the resulting consequences of lower student performance across (2) \_\_\_\_\_ courses.

The latest (3) \_\_\_\_\_ has altered the education of millions of people around the world. New approaches and improvements in the school system are urgently required. Considering the increasing digital divide, the strategy may exacerbate existing inequality disparities. More than 500 million students, at various levels, around the world were forced to (4) \_\_\_\_\_ their studies. These changes have caused and will continue to cause some inconvenience, but they will also foster innovation and future reforms inside this education system.

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**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. numerous
  - 2. fewer
  - 3. particular
  - 4. limit

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As a result of Covid-19, the quick (1) \_\_\_\_\_ to digital training has exposed the hazards of student disengagement and the resulting consequences of lower student performance across (2) \_\_\_\_\_ courses.

The latest (3) \_\_\_\_\_ has altered the education of millions of people around the world. New approaches and improvements in the school system are urgently required. Considering the increasing digital divide, the strategy may exacerbate existing inequality disparities. More than 500 million students, at various levels, around the world were forced to (4) \_\_\_\_\_ their studies. These changes have caused and will continue to cause some inconvenience, but they will also foster innovation and future reforms inside this education system.

During a global Covid-19 pandemic, the 'pile-on effect' of the coronavirus can have long-term consequences for schooling, notably for the most vulnerable. Children, (5) \_\_\_\_\_ basic, core learning (reading, math, languages, etc.) was weak to begin with, face a significant risk of regression. During Covid-19, millions of children whose right to education has already been violated, particularly girls, are exposed to greater health and well-being hazards (both psychosocial and physical).

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. local
  - 2. endemic
  - 3. epidemic
  - 4. pandemic

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As a result of Covid-19, the quick (1) \_\_\_\_\_ to digital training has exposed the hazards of student disengagement and the resulting consequences of lower student performance across (2) \_\_\_\_\_ courses.

The latest (3) \_\_\_\_\_ has altered the education of millions of people around the world. New approaches and improvements in the school system are urgently required. Considering the increasing digital divide, the strategy may exacerbate existing inequality disparities. More than 500 million students, at various levels, around the world were forced to (4) \_\_\_\_\_ their studies. These changes have caused and will continue to cause some inconvenience, but they will also foster innovation and future reforms inside this education system.

During a global Covid-19 pandemic, the 'pile-on effect' of the coronavirus can have long-term consequences for schooling, notably for the most vulnerable. Children, (5) \_\_\_\_\_ basic, core learning (reading, math, languages, etc.) was weak to begin with, face a significant risk of regression. During Covid-19, millions of children whose right to education has already been violated, particularly girls, are exposed to greater health and well-being hazards (both psychosocial and physical).

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. suspend
  - 2. resume
  - 3. reopened
  - 4. carry on

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As a result of Covid-19, the quick (1) \_\_\_\_\_ to digital training has exposed the hazards of student disengagement and the resulting consequences of lower student performance across (2) \_\_\_\_\_ courses.

The latest (3) \_\_\_\_\_ has altered the education of millions of people around the world. New approaches and improvements in the school system are urgently required. Considering the increasing digital divide, the strategy may exacerbate existing inequality disparities. More than 500 million students, at various levels, around the world were forced to (4) \_\_\_\_\_ their studies. These changes have caused and will continue to cause some inconvenience, but they will also foster innovation and future reforms inside this education system.

During a global Covid-19 pandemic, the 'pile-on effect' of the coronavirus can have long-term consequences for schooling, notably for the most vulnerable. Children, (5) \_\_\_\_\_ basic, core learning (reading, math, languages, etc.) was weak to begin with, face a significant risk of regression. During Covid-19, millions of children whose right to education has already been violated, particularly girls, are exposed to greater health and well-being hazards (both psychosocial and physical).

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. which
  - 2. whose
  - 3. whom
  - 4. who

## Combined Graduate Level Examination 2024 Tier I

Exam Date	11/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$14014 \times 14 - 10 \div 8 + 14 = ?$$

- Ans
- 1. 1062
  - 2. 1063
  - 3. 1067
  - 4. 1064

**Q.2** The position(s) of how many letters will remain unchanged if all the letters in the word 'MEADOW' are arranged in English alphabetical order?

- Ans
- 1. None
  - 2. Two
  - 3. One
  - 4. Three

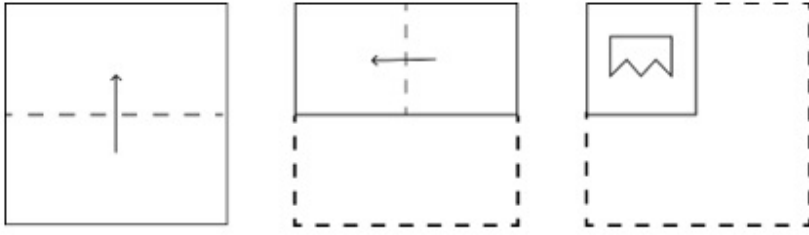
**Q.3** In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(280, 140)

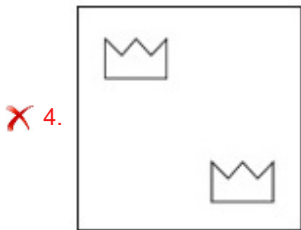
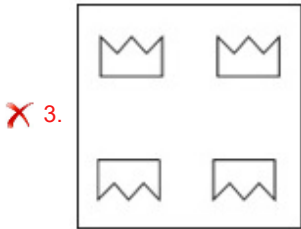
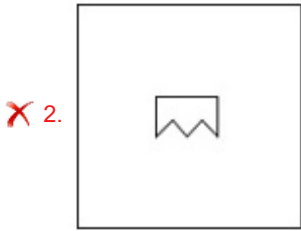
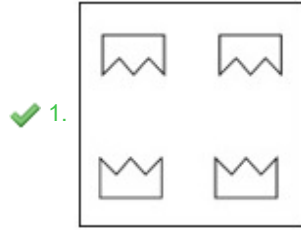
(186, 93)

- Ans
- 1. (118, 59)
  - 2. (92, 51)
  - 3. (86, 48)
  - 4. (166, 84)

Q.4 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans



Q.5 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



Ans



**Q.6** Which two numbers (not digits) should be interchanged to make the given equation correct?  
 $48 \div 3 + 12 \times 4 - 6 \times 7 + 21 = 27$

- Ans**
- 1. 3 and 4
  - 2. 3 and 6
  - 3. 4 and 7
  - 4. 12 and 21

**Q.7** The question contains pairs of words that are related to each other in a certain way. Three of the following four word pairs are alike as these have the same relationship and thus form a group. Which word pair is the one that DOES NOT belong to that group?

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants/vowels in the word.)

- Ans**
- 1. Bone – orthopaedic
  - 2. Uterus – urologist
  - 3. Stomach – gastroenterologist
  - 4. Eye – ophthalmologist

**Q.8** In a certain code language, 'CONFUSED' is coded as '7' and 'CHAIN' is coded as '4'. How will 'ADULTHOOD' be coded in that language?

- Ans**
- 1. 9
  - 2. 7
  - 3. 8
  - 4. 6

**Q.9** The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. 151 : 19
  - 2. 128 : 16
  - 3. 135 : 17
  - 4. 103 : 13

KD JOB UPDATES

Q.10 Identify the figure given in the options which when put in place of ? will logically complete the series.

@	@ *	@ * %	@ * % =	?
---	-----	-------	------------	---

Ans

✓ 1.

@ * % =	\$
------------	----

✗ 2.

@ * %	%
-------	---

✗ 3.

@ * %	=
\$	

✗ 4.

@ * %	@
-------	---

Q.11 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.  
q p \_ r \_ r q \_ p \_ r p \_ q \_ p r \_ p \_ q

Ans ✗ 1. r p q r r p r q

✓ 2. r p q r r q r r

✗ 3. r p q q r q r p

✗ 4. r p q r r q r p

Q.12 16 is related to 112 following a certain logic. Following the same logic, 26 is related to 182. To which of the following is 44 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans ✓ 1. 308

✗ 2. 312

✗ 3. 310

✗ 4. 302

Q.13 'Summer' is related to 'Season' in the same way as 'Cotton' is related to '\_\_\_\_\_'.  
\_\_\_\_\_

Ans ✓ 1. Cloth

✗ 2. Grain

✗ 3. Dye

✗ 4. Tree

**Q.14** Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

All bottles are jugs.  
Some bottles are flasks.  
All flasks are bins.

**Conclusions:**

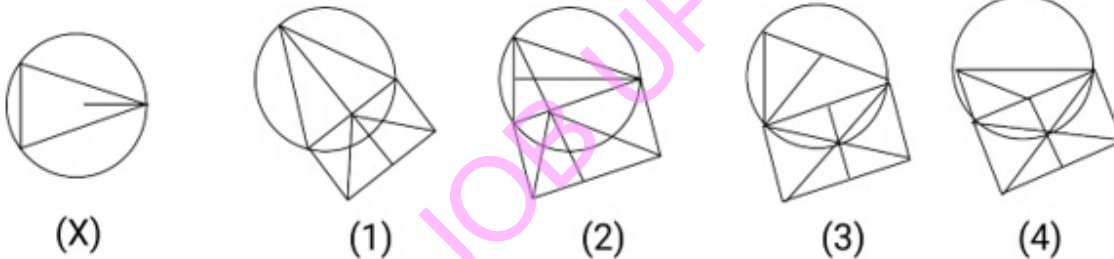
I. Some bottles are bins.  
II. Some jugs are bins.  
III. Some flasks are jugs.

- Ans**  1. All conclusions I, II and III follow  
 2. Either conclusion I or II follows  
 3. Only conclusions II and III follow  
 4. Only conclusions I and II follow

**Q.15** In a certain code language,  
 $A + B$  means 'A is the son of B',  
 $A - B$  means 'A is the wife of B',  
 $A \times B$  means 'A is the brother of B' and  
 $A \div B$  means 'A is the mother of B'.  
Based on the above, if ' $P + Q \div R - T \times M$ ', which of the following is true?

- Ans**  1. M is the sister of T.  
 2. P is the brother of R.  
 3. Q is the mother of M.  
 4. T is the brother of P.

**Q.16** Figure X is followed by four figures numbered (1), (2), (3), (4). Identify the figure among the four in which figure X is embedded (i.e. contains figure X in the same form).



- Ans**  1. 2  
 2. 4  
 3. 1  
 4. 3



Q.17 Which figure should replace the question mark (?) if the following series were to be continued?

☆	D	2	+	D	N	+	☆	
	N	2	☆	8	2	+	D	8
+	8	D	N	☆	8	N	2	?

Ans

✗ 1.

2		N
	+	☆
8		D

✗ 2.

2		N
	☆	+
D		8

✗ 3.

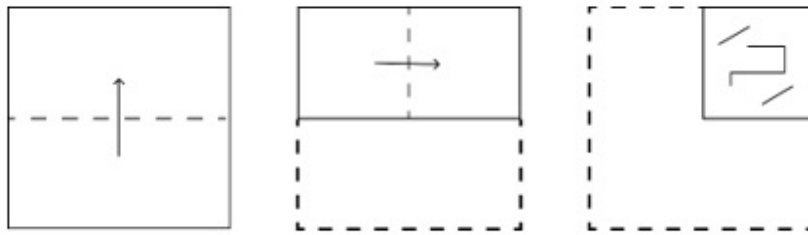
D		2
	N	☆
+		8

✓ 4.

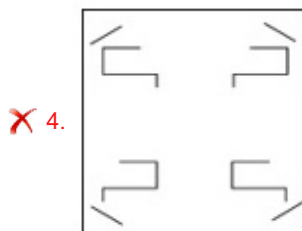
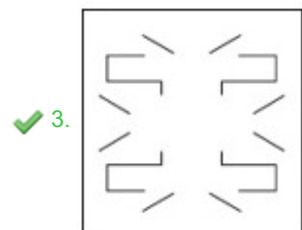
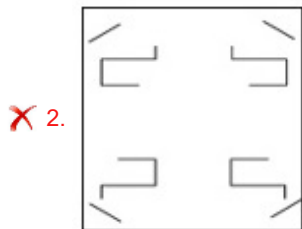
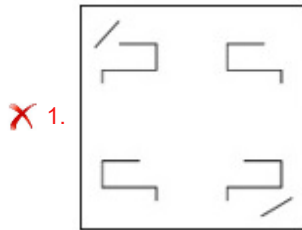
N		2
	+	☆
D		8

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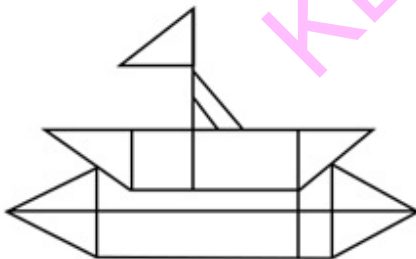
Q.18 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans



Q.19 How many triangles are there in the given figure?



Ans ✓ 1. 11

✗ 2. 8

✗ 3. 9

✗ 4. 10

Q.20 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
RATE : SCWI :: HIGH : IKJL :: OPEN : ?

Ans ✗ 1. PRIS

✗ 2. PQHR

✗ 3. PSIR

✓ 4. PRHR

Q.21 Which of the following terms will replace the question mark (?) in the given series?  
GASM, CCOO, YEKQ, ? , QICU

- Ans
- 1. UGGS
  - 2. UCGS
  - 3. UGGT
  - 4. TGFS

Q.22 8 is related to 512 following a certain logic. Following the same logic, 12 is related to 1728. To which of the following is 15 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. 2275
  - 2. 2725
  - 3. 3375
  - 4. 3735

Q.23 Which of the following numbers will replace the question mark (?) in the given series?  
17, 38, 84, ?, 376, 772

- Ans
- 1. 190
  - 2. 200
  - 3. 180
  - 4. 150

Q.24 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Acrimony : Humanity :: Wield : ?

- Ans
- 1. Exert
  - 2. Forgo
  - 3. Use
  - 4. Apply

Q.25 In a certain code language, 'DEMAND' is written as '410132144' and 'SUPPLY' is written as '194216161225'. How will 'PRODUCT' be written in that language?

- Ans
- 1. 161830442320
  - 2. 323615821640
  - 3. 161542320
  - 4. 161815421320

Section : General Awareness

Q.1 What kind of radiation is absorbed by the ozone layer?

- Ans
- 1. Green radiation
  - 2. Infrared radiation
  - 3. Visible radiation
  - 4. Ultraviolet radiation

Q.2 Which of the following organisations, divided into two branches, was established by Lokmanya Bal Gangadhar Tilak and Annie Besant?

- Ans
- 1. Indian Association
  - 2. Theosophical society
  - 3. East Indian Association
  - 4. Home Rule League

**Q.3** In which of the following years did India NOT host the ICC Cricket World Cup Tournament?

- Ans**
- 1. 2011
  - 2. 1996
  - 3. 1983
  - 4. 1987

**Q.4** Match the following books with their respective authors.

Book	Author
a) Tajul Ma'asir	i) Yahya bin Ahmad Sirhindhi
b) Khazain-ul Futuh	ii) Hasan Nizami
c) Tarikh-i-Firuzshahi	iii) Ziauddin Barani
d) Tarikh-i-Mubarakshahi	iv) Amir Khusrav

- Ans**
- 1. a-iii; b-i; c-iv; d-ii
  - 2. a-ii; b-iv; c-iii; d-i
  - 3. a-iv; b-iii; c-i; d-ii
  - 4. a-i; b-iii; c-ii; d-iv

**Q.5** Which of the following options is mostly caused by overpopulation?

- Ans**
- 1. Land and other renewable resources are under pressure
  - 2. Adequate natural resource storage
  - 3. Reduction in the scarcity of water
  - 4. Increase in the area covered by forests

**Q.6** Which of the following types of direct tax collection increased as of 10 February 2023 budget?

- Ans**
- 1. Personal income tax
  - 2. Octroi duties
  - 3. Corporate tax
  - 4. Commercial tax

**Q.7** Palladium on barium sulphate ( $\text{Pd/BaSO}_4$ ) is also known as:

- Ans**
- 1. a Hillman reaction catalyst
  - 2. a Cannizzaro reaction catalyst
  - 3. the Rosenmund catalyst
  - 4. an aldol reaction catalyst

**Q.8** Ebony and Mahogany trees are found in which type of forests?

- Ans**
- 1. Mangrove forests
  - 2. Tropical deciduous forests
  - 3. Tropical evergreen forests
  - 4. Montane forests

**Q.9** Which party formed the government in Britain in the year 1945?

- Ans**
- 1. Democratic Party
  - 2. Labour Party
  - 3. Socialist Party
  - 4. Liberal Party

**Q.10** When was the Duty-Free Tariff Preference (DFTP) Scheme for Least Developed Countries (LDCs) announced by India?  
**Ans**  1. 2010  
 2. 2009  
 3. 2006  
 4. 2008

**Q.11** Which Ghazal singer was conferred with the prestigious Deenanath Mangeshkar Award in April 2023?  
**Ans**  1. Talat Aziz  
 2. Ghazal Srinivas  
 3. Pankaj Udhas  
 4. Bhupinder Singh

**Q.12** In which year was the PM Ayushman Bharat Health Infrastructure Mission launched?  
**Ans**  1. 2020  
 2. 2022  
 3. 2021  
 4. 2023

**Q.13** Which of the following categories does Gonyaulax belong to?  
**Ans**  1. Euglenoids  
 2. Chrysophytes  
 3. Protozoans  
 4. Dinoflagellates

**Q.14** Valabhi, a city of ancient India was the capital of the \_\_\_\_\_ dynasty from the 5th to 8th Century CE.  
**Ans**  1. Maitraka  
 2. Chalukya  
 3. Pallava  
 4. Vakataka

**Q.15** Bharatanatyam dance style is associated with which of the following states?  
**Ans**  1. Karnataka  
 2. Tamil Nadu  
 3. Bihar  
 4. Manipur

**Q.16** Which type of radiation has very short ( $<10^{-3}$  nm) wavelengths, produced by nuclear explosions, lightning and less dramatic activity of radioactive decay?  
**Ans**  1. Gamma  
 2. Infra-red  
 3. Microwave  
 4. Ultraviolet

**Q.17** Which of the following pairs do NOT share any borders?  
**Ans**  1. Bhutan and Arunachal Pradesh  
 2. Bhutan and Meghalaya  
 3. Bhutan and West Bengal  
 4. Bhutan and Assam

**Q.18** On which of the following dates does India celebrate its Constitution Day?

- Ans**
- 1. 26<sup>th</sup> January
  - 2. 26<sup>th</sup> November
  - 3. 15<sup>th</sup> August
  - 4. 2<sup>th</sup> October

**Q.19** The organisation that Comptroller and Auditor General heads is known as \_\_\_\_\_.

- Ans**
- 1. Indian Civil Accounts Organisation
  - 2. Controller General of Accounts
  - 3. Indian Audit and Accounts Department
  - 4. Institute of Chartered Accountants of India

**Q.20** Consider the following statements and choose the correct statement(s) from the following:

1. The UDAN scheme has completed five years since its implementation in 2017.
2. It is the flagship scheme of the Ministry of Science and Technology.
3. The Airports Authority of India is the implementing agency of this scheme.

- Ans**
- 1. Only statement 3
  - 2. Only statement 2
  - 3. Only statements 2 and 3
  - 4. Only statements 1 and 3

**Q.21** Which Indian marathon event is considered the largest marathon in Asia?

- Ans**
- 1. Kaveri Trail Marathon
  - 2. Pinkathon
  - 3. Delhi Half Marathon
  - 4. Mumbai Marathon

**Q.22** Shab-e-Barat is celebrated by which religious group?

- Ans**
- 1. Muslim
  - 2. Buddhist
  - 3. Jain
  - 4. Parsi

**Q.23** Consider the following statements associated with the India Infrastructure Project Development Fund (IIPDF).

1. IIPDF was set up in 2017.
  2. The funds for IIPDF are provided by the Central Government?
  3. This scheme is notified under the Department of Economic Affairs.
- Which of the above statements is/are INCORRECT?

- Ans**
- 1. Only 2 and 3
  - 2. Only 1
  - 3. Only 1 and 2
  - 4. Only 3

**Q.24** Who among the following was one of the Navratnas of Akbar?

- Ans**
- 1. Purandar Das
  - 2. Swami Haridas
  - 3. Tansen
  - 4. Amir Khusro

**Q.25** Who has written the book 'Fearless Governance', published in January 2021, describing her stint as Governor?

- Ans**
- 1. Draupadi Murmu
  - 2. Baby Rani Maurya
  - 3. Kiran Bedi
  - 4. Anandi ben Patel

Section : Quantitative Aptitude

**Q.1** Find the smallest number to be added to 999, so that 99 divides the sum exactly.

- Ans**
- 1. 99
  - 2. 0
  - 3. 90
  - 4. 9

**Q.2** If  $x + \frac{1}{x} = 2\sqrt{10}$ , where  $x > 1$ , then the value of  $(x^3 - \frac{1}{x^2})$  is:

- Ans**
- 1. 221
  - 2. 234
  - 3. 198
  - 4. 216

**Q.3** In an election between two candidates P and Q, P got 78% of the total valid votes. If the total votes of the electorate were 75,60,000, then what was the number of valid votes that Q got if 10% of the voters did not cast their vote and 15% of the votes polled were declared invalid?

- Ans**
- 1. 1,41,372
  - 2. 1,41,732
  - 3. 12,72,348
  - 4. 1,47,312

**Q.4** In a circle, two chords MN and PQ intersect at O. If MO = 9 cm, ON = 5 cm and OQ = 6 cm, then the value of OP (in cm) is:

- Ans**
- 1. 7.5
  - 2. 6.5
  - 3. 6
  - 4. 7

**Q.5** In a  $\triangle ABC$  right-angled at C, if  $\tan A = \sqrt{3}$ , then the value of  $\sin A \cos B \cot(A + B)$  is:

- Ans**
- 1.  $\sqrt{3}$
  - 2. 1
  - 3. 0
  - 4. 2

**Q.6** A rectangular courtyard is 4m 95cm long and 16m 65cm broad. It is to be paved with the square tiles of the same size. Find the least number of such square tiles required to pave the rectangular courtyard.

- Ans**
- 1. 877
  - 2. 944
  - 3. 388
  - 4. 407

Q.7 The inner and outer radii of a circular track are 28 m and 25 m, respectively. The cost (in ₹) of levelling the track at ₹28 per  $m^2$  is:

[Use  $\pi = \frac{22}{7}$ ]

- Ans
- 1. 15,421
  - 2. 13,992
  - 3. 11,229
  - 4. 17,355

Q.8 There are two pipes to fill a tank. Together, they can fill the tank in 15 minutes. If one pipe can fill the tank in one and a half times as fast as the other, the faster pipe alone can fill the tank in:

- Ans
- 1. 10 minutes
  - 2. 25 minutes
  - 3. 20 minutes
  - 4.  $32\frac{1}{2}$  minutes

Q.9 Find the value of  $\frac{\sec 35^\circ}{\operatorname{cosec} 55^\circ} - \frac{\cos 25^\circ}{\sin 65^\circ}$ .

- Ans
- 1. 0
  - 2. 1
  - 3.  $\frac{1}{2}$
  - 4. 2

Q.10 If the perimeter of an equilateral triangle is 36 units, then its area is (in square units):

- Ans
- 1.  $144\sqrt{2}$
  - 2.  $36\sqrt{2}$
  - 3.  $144\sqrt{3}$
  - 4.  $36\sqrt{3}$

Q.11 If  $a \sin^3 X + b \cos^3 X = \sin X \cos X$  and  $a \sin X = b \cos X$ , then find the value of  $a^2 + b^2$ , provided that  $x$  is neither  $0^\circ$  nor  $90^\circ$ .

- Ans
- 1. 0
  - 2. 1
  - 3.  $a^2 - b^2$
  - 4.  $a^2 + b^2$

Q.12 A dishonest merchant sells his grocery using weights that are 12% less than the true weights and makes a profit of 10%. Find his total gain percentage.

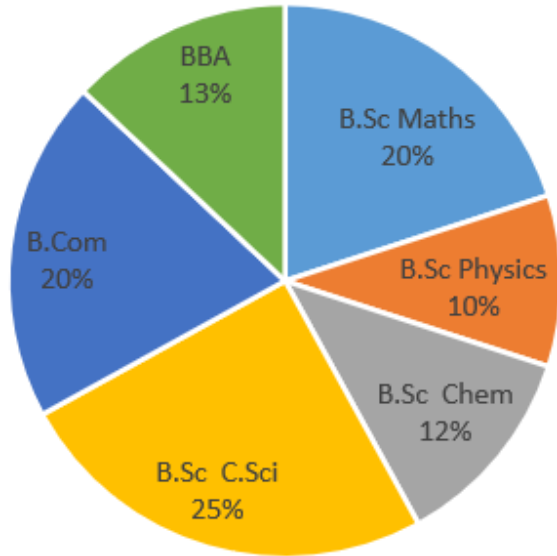
- Ans
- 1. 10%
  - 2. 20%
  - 3. 15%
  - 4. 25%



Q.13 Atul gives Vishu a head-start of 20 seconds in a 900 m race and beats him by 135 m. While running the same race again Atul gives a start of 189 m and beats him by 8 seconds. In how much time can Vishu complete the full race of 900 m?

- Ans
- 1. 3 minutes 30 seconds
  - 2. 2 minutes 50 seconds
  - 3. 3 minutes 20 seconds
  - 4. 3 minutes 10 seconds

Q.14 The following pie chart shows the distribution of the percentage of students in various courses at the university. The total number of students (boys and girls only) in the university is 7000.



In B.Com, there are 60% girls and in B.Sc. C.Sci, there are 40% boys. The total number of girls who took admission in B.Sc C.Sci and B.Com courses is what percentage of the total students admitted to the university?

- Ans
- 1. 25%
  - 2. 29%
  - 3. 23%
  - 4. 27%

Q.15 In a division problem, the divisor is 4 times the quotient and 2 times the remainder. If the remainder is 32, then find the dividend.

- Ans
- 1. 1056
  - 2. 1650
  - 3. 3240
  - 4. 1065

Q.16 The interest accrued on a sum of ₹16,000 lent at a simple interest rate of 14% p.a. for the time in those many years, which gives a simple interest of three-fifths of a certain sum at 10% p.a., is:

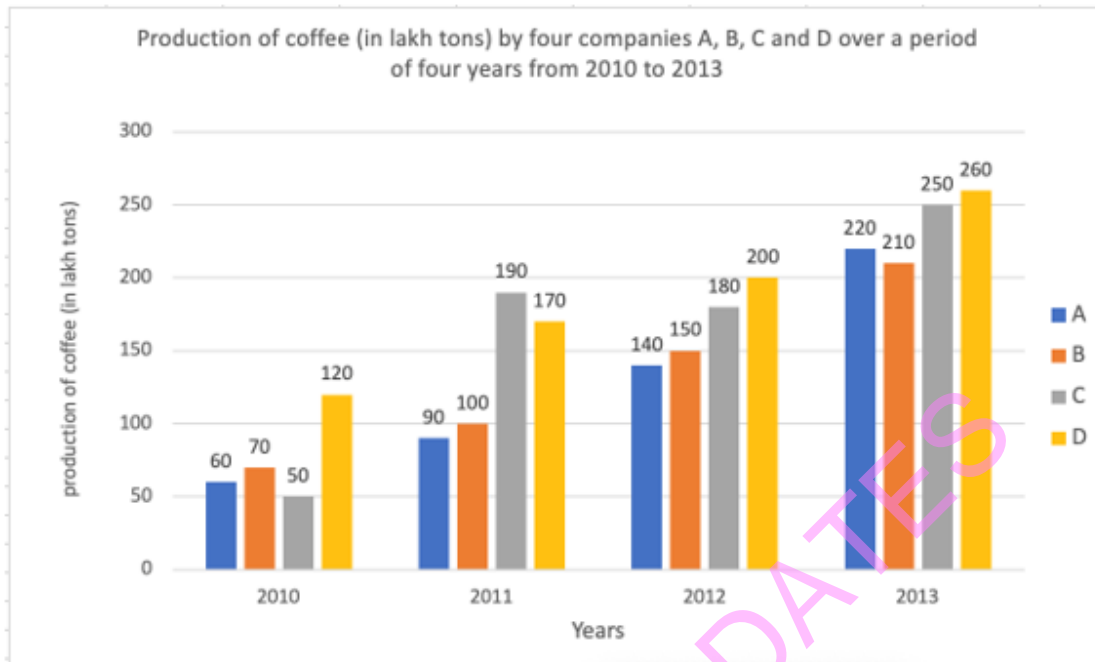
- Ans
- 1. ₹13,440
  - 2. ₹12,970
  - 3. ₹15,360
  - 4. ₹14,280

Q.17 A group of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 62. What is the average score of the group?

- Ans
- 1. 62
  - 2. 63
  - 3. 60
  - 4. 61

- Q.18 In a rhombus ABCD, O is any interior point such that  $OA = OC$ . What is five-ninths of the degree measure of  $\angle DOB$ ?
- Ans
- 1.  $120^\circ$
  - 2.  $150^\circ$
  - 3.  $100^\circ$
  - 4.  $90^\circ$

- Q.19 The bar graph below shows the production of coffee (in lakh tons) by four companies A, B, C and D over a period of four years from 2010 to 2013. Study the graph and answer the question that follows.



The combined average production for four years of companies A and C is what percentage (rounded off to 2 decimal places) more/less than the combined average production for four years of companies B and D?

- Ans
- 1. Less, 7.81%
  - 2. More, 10.51%
  - 3. More, 7.81%
  - 4. Less, 10.51%

- Q.20 Solve the given set of three equations to get the value of the unknowns:

$$\begin{aligned} x + 2z &= 3 \\ x + 2y + 3z &= 5 \\ 3x - 5z &= -13 \end{aligned}$$

- Ans
- 1.  $x = 0, y = -1, z = 2$
  - 2.  $x = -1, y = 0, z = 2$
  - 3.  $x = -1, y = 2, z = 0$
  - 4.  $x = 2, y = 0, z = -1$

- Q.21 Mrudula starts her job with a certain monthly salary and earns a fixed increment every year. If her salary was ₹28,400 after six years of service and ₹52,997 after fifteen years, find her annual increment.

- Ans
- 1. ₹12,002
  - 2. ₹1,200
  - 3. ₹2,733
  - 4. ₹1,824

- Q.22 A sum of money is divided among P, Q, R and S in the proportion of  $4 : 9 : 2 : 3$ . If Q gets ₹560 more than R, then the share of S is:

- Ans
- 1. ₹140
  - 2. ₹340
  - 3. ₹240
  - 4. ₹440

- Q.23 The below table gives the marks out of 100 obtained by five students in four different subjects in an examination. Study the table and answer the question that follows.

Student/subject	Mathematics	Physics	Biology	English
Suresh	70	80	65	60
Ramesh	85	70	70	55
Ankith	90	80	60	65
Ranjith	95	70	65	60
Aryan	75	65	65	70

What are the average marks obtained by all five students in Mathematics?

- Ans  1. 83  
 2. 80  
 3. 85  
 4. 84

- Q.24 Study the given table and answer the question that follows.

The given table shows the number of candidates who appeared (both male and female) in a Public Examination and the percentage of those who qualified in the examination from two states X and Z. Few values are missing in the table (indicated by -----). You will be required to fill them up according to the question.

Year	State X		State Z	
	Number of appeared candidates	Percentage of qualified candidates	Number of appeared candidates	Percentage of qualified candidates
2008	480	70%	-----	70%
2009	560	75%	500	80%
2010	-----	60%	650	50%
2011	450	89%	720	72%
2012	790	-----	660	-----

Out of the number of qualified candidates from State X in 2010, the ratio of male to female candidates is 5 : 7. If the number of female qualified candidates from State X in 2010 is 168, what is the number of appeared candidates (both male and female) from State X in 2010?

- Ans  1. 360  
 2. 480  
 3. 640  
 4. 540

- Q.25 A shopkeeper, on the eve of Diwali, allowed a series of discounts on television sets. Find the selling price of a television set, if the marked price of television is ₹1,200 and successive discounts are 15% and 10%.

- Ans  1. ₹945  
 2. ₹918  
 3. ₹975  
 4. ₹965

**Q.1** Select the option that can be used as a one-word substitute for the underlined group of words in the following sentence. Despite recent superficial moves toward political reconciliation, Libya remains in the grip of a bloodstained corrupt military exclusive circle of people with a common purpose.

- Ans**
- 1. oblique
  - 2. pique
  - 3. clique
  - 4. antique

**Q.2** Select the option that can be used as a one-word substitute for the given group of words.

An instrument for viewing distant objects in space.

- Ans**
- 1. Microscope
  - 2. Spectrograph
  - 3. Telescope
  - 4. Binoculars

**Q.3** The following sentence contains a word with a spelling error. Rectify the sentence by selecting the correct spelling of the identified word from the given options.

I was upstairs when somebody rang the doorbell.

- Ans**
- 1. Upstares
  - 2. Upstaire
  - 3. upsatires
  - 4. Upstairs

**Q.4** Select the most appropriate synonym of the given word.  
Adversity

- Ans**
- 1. Success
  - 2. Misfortune
  - 3. Pleasure
  - 4. Advantage

**Q.5** Select the most appropriate ANTONYM of the following word.

Forbid

- Ans**
- 1. Prohibit
  - 2. Allow
  - 3. Call
  - 4. Forsake

**Q.6** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- (A) while the employees
- (B) meeting on time
- (C) the boss arrived at the
- (D) despite the heavy traffic
- (E) were late

- Ans**
- 1. DCBAE
  - 2. DACEB
  - 3. BACED
  - 4. ACEDB

Q.7 Select the most appropriate option to substitute the underlined segment in the given sentence.  
Charles Darwin is renowned for his book on evolution, 'On the Origin of Species', which laid down a treasure of substantiation that evolution occurs, and projected a mechanism, that is, natural selection, for how it does so.

- Ans
- 1. laid into a treasure of substantiation
  - 2. laid about a treasure of substantiation
  - 3. laid away a treasure of substantiation
  - 4. laid out a treasure of substantiation

Q.8 Parts of the following sentence have been given as options. Select the option that contains an error.  
It is he who work for the company for more than a decade.

- Ans
- 1. for more than a decade
  - 2. who work
  - 3. for the company
  - 4. It is he

Q.9 Select the option that correctly expresses the given sentence in passive voice.  
The teachers of our school have already taken this training.

- Ans
- 1. This training has already been taken by the teachers of our school.
  - 2. This training has been taken by the teachers of our school.
  - 3. This training has already been taken by the our school teachers.
  - 4. This training was already taken by the teachers of our school.

Q.10 Select the most appropriate ANTONYM of the underlined word.

He was very cruel in dealing with the students.

- Ans
- 1. Skittish
  - 2. Kind
  - 3. Malevolent
  - 4. Kingly

Q.11 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- (A) he had to take the bus
- (B) his friend, who used to give
- (C) to his office because he had
- (D) him a lift, was on vacation
- (E) never learned to drive and

- Ans
- 1. DACEB
  - 2. ACEBD
  - 3. EBADC
  - 4. BADEC

Q.12 Select the option that expresses the following sentence in passive voice.  
Ravi will play the match.

- Ans
- 1. The match is played by Ravi.
  - 2. The match will have been played by Ravi.
  - 3. The match will be playing by Ravi.
  - 4. The match will be played by Ravi.

Q.13 Select the most appropriate option that can substitute the underlined word in the given sentence.  
Our legal system must frame proper legal rules for juvenile criminals.

- Ans
- 1. senile
  - 2. dotage
  - 3. old
  - 4. young

Q.14 Substitute the underlined word-segment with most appropriate idiom.

The doctors tried very hard to save his mother but they were unsuccessful.

- Ans
- 1. faced the music
  - 2. drew the line
  - 3. moved heaven and earth
  - 4. ran like clockwork

Q.15 Select the most appropriate meaning of the given idiom.

Hit the nail on the head

- Ans
- 1. They are experiencing a headache.
  - 2. They have accurately identified or explained something.
  - 3. They're uncertain about a decision.
  - 4. They hit a nail with a hammer.

Q.16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
The windows / violent banged / during the / storm yesterday.

- Ans
- 1. during the
  - 2. The windows
  - 3. storm yesterday.
  - 4. violent banged

Q.17 Identify the INCORRECTLY spelt word in the following sentence and select its correct spelling from the given options.  
His acquaintance with the author led to many fruitful collaborations.

- Ans
- 1. acuiantance
  - 2. acquaintance
  - 3. acquaintence
  - 4. aquaintance

Q.18 Identify the correct synonym of the word given below.  
FATIGUE

- Ans
- 1. Mission
  - 2. Tiredness
  - 3. Vigour
  - 4. Obese

Q.19 Select the most appropriate synonym of the underlined word.  
She was overstrung before her dance performance.

- Ans
- 1. Cheerful
  - 2. Calm
  - 3. Placid
  - 4. Nervous

Q.20 Select the option that can be used as a one-word substitute for the given group of words.  
Awkward in movement or manner

- Ans
- 1. Alert
  - 2. Imbalanced
  - 3. Clumsy
  - 4. Clownish

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Azadi Ka Amrit Mahotsav is an (1) \_\_\_\_\_ by the Government of India to celebrate and remember 75 years of independence and the beautiful history of its people, culture and achievements. This Mahotsav is (2) \_\_\_\_\_ to the people of India, who have not only been instrumental in bringing India this far in its evolutionary journey but also (3) \_\_\_\_\_ the power and potential to realise Prime Minister, Narendra Modi's (4) \_\_\_\_\_ of activating India 2.0, fuelled by the spirit of Aatmanirbhar Bharat. The formal journey of Azadi Ka Amrit Mahotsav began on 12 March 2021, beginning a (5) \_\_\_\_\_ to our 75th anniversary of independence and will finish a year later on 15 August 2023.

**SubQuestion No : 21****Q.21** Select the most appropriate answer for blank number 1.%

- Ans**
- 1. associate
  - 2. initiative
  - 3. obligation
  - 4. occult

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Azadi Ka Amrit Mahotsav is an (1) \_\_\_\_\_ by the Government of India to celebrate and remember 75 years of independence and the beautiful history of its people, culture and achievements. This Mahotsav is (2) \_\_\_\_\_ to the people of India, who have not only been instrumental in bringing India this far in its evolutionary journey but also (3) \_\_\_\_\_ the power and potential to realise Prime Minister, Narendra Modi's (4) \_\_\_\_\_ of activating India 2.0, fuelled by the spirit of Aatmanirbhar Bharat. The formal journey of Azadi Ka Amrit Mahotsav began on 12 March 2021, beginning a (5) \_\_\_\_\_ to our 75th anniversary of independence and will finish a year later on 15 August 2023.

**SubQuestion No : 22****Q.22** Select the most appropriate answer for blank number 2.%

- Ans**
- 1. dedicated
  - 2. alienated
  - 3. refused
  - 4. withhold

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Azadi Ka Amrit Mahotsav is an (1) \_\_\_\_\_ by the Government of India to celebrate and remember 75 years of independence and the beautiful history of its people, culture and achievements. This Mahotsav is (2) \_\_\_\_\_ to the people of India, who have not only been instrumental in bringing India this far in its evolutionary journey but also (3) \_\_\_\_\_ the power and potential to realise Prime Minister, Narendra Modi's (4) \_\_\_\_\_ of activating India 2.0, fuelled by the spirit of Aatmanirbhar Bharat. The formal journey of Azadi Ka Amrit Mahotsav began on 12 March 2021, beginning a (5) \_\_\_\_\_ to our 75th anniversary of independence and will finish a year later on 15 August 2023.

**SubQuestion No : 23****Q.23** Select the most appropriate answer for blank number 3.%

- Ans**
- 1. clarifies
  - 2. possess
  - 3. concludes
  - 4. obtains

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Azadi Ka Amrit Mahotsav is an (1) \_\_\_\_\_ by the Government of India to celebrate and remember 75 years of independence and the beautiful history of its people, culture and achievements. This Mahotsav is (2) \_\_\_\_\_ to the people of India, who have not only been instrumental in bringing India this far in its evolutionary journey but also (3) \_\_\_\_\_ the power and potential to realise Prime Minister, Narendra Modi's (4) \_\_\_\_\_ of activating India 2.0, fuelled by the spirit of Aatmanirbhar Bharat. The formal journey of Azadi Ka Amrit Mahotsav began on 12 March 2021, beginning a (5) \_\_\_\_\_ to our 75th anniversary of independence and will finish a year later on 15 August 2023.

**SubQuestion No : 24**

**Q.24** Select the most appropriate answer for blank number 4.%

- Ans**
- 1. graphics
  - 2. vision
  - 3. design
  - 4. control

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Azadi Ka Amrit Mahotsav is an (1) \_\_\_\_\_ by the Government of India to celebrate and remember 75 years of independence and the beautiful history of its people, culture and achievements. This Mahotsav is (2) \_\_\_\_\_ to the people of India, who have not only been instrumental in bringing India this far in its evolutionary journey but also (3) \_\_\_\_\_ the power and potential to realise Prime Minister, Narendra Modi's (4) \_\_\_\_\_ of activating India 2.0, fuelled by the spirit of Aatmanirbhar Bharat. The formal journey of Azadi Ka Amrit Mahotsav began on 12 March 2021, beginning a (5) \_\_\_\_\_ to our 75th anniversary of independence and will finish a year later on 15 August 2023.

**SubQuestion No : 25**

**Q.25** Select the most appropriate answer for blank number 5.%

- Ans**
- 1. allocation
  - 2. countdown
  - 3. custom
  - 4. breakdown

KD JOB UPDATES



## Combined Graduate Level Examination 2024 Tier I

Exam Date	11/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '+' are interchanged?

$$8 + 6 \div 51 - 17 \times 13 = ?$$

- Ans
- 1. 32
  - 2. 58
  - 3. 63
  - 4. 71

**Q.2** Select the triad in which the numbers are related to each other in the same way as the numbers in the following triads.  
8-17-35  
23-47-95

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 9-20-41
  - 2. 12-25-51
  - 3. 13-29-55
  - 4. 16-32-62

**Q.3** Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements:

All apples are mangoes.  
All mangoes are lemons.  
All lemons are kiwis.

Conclusions:

(I) All apples are lemons.  
(II) All mangoes are kiwis.

- Ans
- 1. Neither conclusion I nor II follow.
  - 2. Only conclusion I follows.
  - 3. Only conclusion II follows.
  - 4. Both conclusions I and II follow.

**Q.4** Three of the following numbers are alike in a certain way and one is different. Pick the odd one out.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

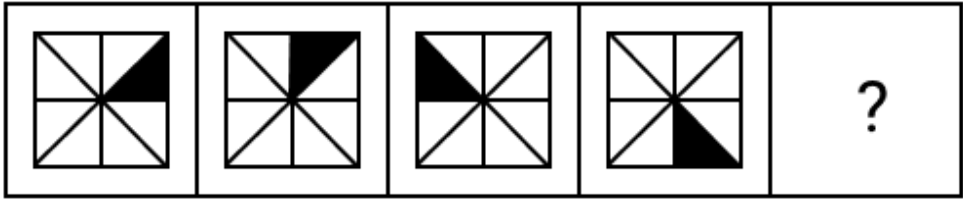
- Ans
- 1. 90 – 144
  - 2. 75 – 120
  - 3. 45 – 70
  - 4. 65 – 104

Q.5 Select the set in which the numbers are related in the same way as are the numbers of the following set.  
 (34, 15, 64)  
 (29, 17, 63)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. (44, 32, 98)
  - 2. (31, 23, 54)
  - 3. (25, 14, 53)
  - 4. (24, 28, 76)

Q.6 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



Ans

- 1.
- 2.
- 3.
- 4.

Q.7 Which of the following terms will replace the question mark (?) in the given series?  
 DBOI, FEQL, ?, JKUR, LNWU

- Ans
- 1. HISP
  - 2. IHSP
  - 3. HHSO
  - 4. HISO

Q.8 In a certain code language, 'BUZZY' is coded as '10' and 'KING' is coded as '8'. How will 'ABROAD' be coded in that language?

- Ans
- 1. 10
  - 2. 7
  - 3. 9
  - 4. 12

**Q.9** Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

186 : 103  
 156 : 73

- Ans  1. 83 : 1  
 2. 208 : 127  
 3. 119 : 35  
 4. 95 : 12

**Q.10** Select the number from among the given options that can replace the question mark (?) in the following series.  
 3, 20, 121, 604, 2417, ?

- Ans  1. 7275  
 2. 7250  
 3. 7200  
 4. 7300

**Q.11** Which figure should replace the question mark (?) if the following series were to be continued?

B	D	X	X	V	B	B	3	=	=	L	B
	=			T			V			T	
3	T	V	=	3	D	D	T	L	V	D	3

Ans

1.

B	D	V
	L	
3	T	4

2.

4	T	=
	D	
B	L	V

3.

B	D	V
	L	
3	T	=

4.

B	T	3
	D	
=	L	V

**Q.12** Select the number that will come in the place of the question mark(?), if '+' and '-' are interchanged and 'x' and '÷' are interchanged  
 $41 - 54 \times 6 \div 9 + 7 = ?$

- Ans  1. 108  
 2. 119  
 3. 104  
 4. 115

**Q.13** Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statements.

**Statements:**

All pens are pages.  
Some pages are pins.  
Some pins are boards.

**Conclusions:**

(I) Some pins are pens.  
(II) Some boards are pages.  
(III) Some pens are boards.

- Ans**
- 1. Only conclusion I follows.
  - 2. None of the conclusions follow.
  - 3. Only conclusion II follows.
  - 4. Either conclusion I or conclusion III follows.

**Q.14** In a certain code language,  
A + B means 'A is the wife of B'.  
A - B means 'A is the son of B'.  
A × B means 'A is the husband of B'.  
A ÷ B means 'A is the father of B'.  
Based on the above, how is P related to T if 'P - Q + R ÷ S × T'?

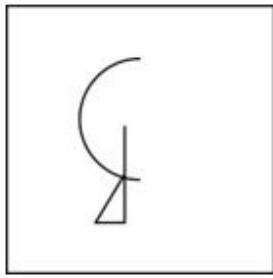
- Ans**
- 1. Son's son
  - 2. Father
  - 3. Husband's brother
  - 4. Father-in-law

**Q.15** 'Lavish' is related to 'Austere' in the same way as 'Prejudiced' is related to '\_\_\_\_\_'.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans**
- 1. Impartial
  - 2. Compromised
  - 3. Thoughtful
  - 4. Careful

KD JOB UPDATES

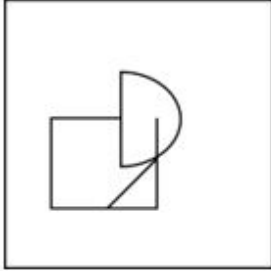
Q.16 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



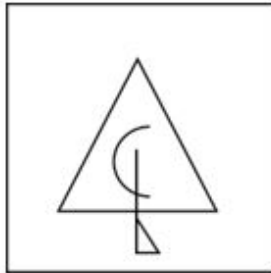
(X)

Ans

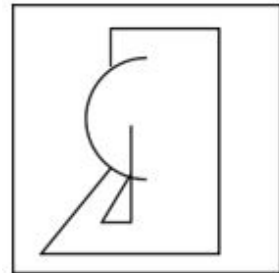
✗ 1.



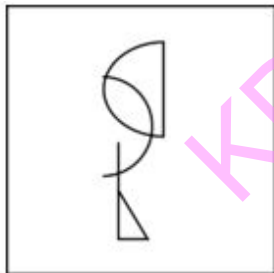
✗ 2.



✓ 3.



✗ 4.



Q.17 The position of how many letters will remain unchanged if each of the letters in the word 'JEALOUS' is arranged in the English alphabetical order?

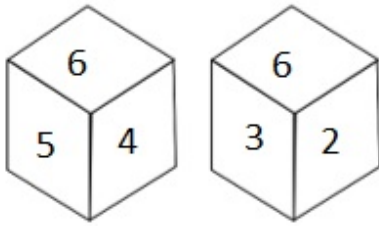
- Ans
- ✗ 1. Two
  - ✗ 2. One
  - ✓ 3. Three
  - ✗ 4. Four

Q.18 Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

\_ C \_ W \_ \_ C \_ W \_ \_

- Ans
- ✗ 1. WCCWWWCC
  - ✓ 2. WWCWWWCW
  - ✗ 3. CWCWWCCW
  - ✗ 4. CCWWCCWW

Q.19 Two different positions of the same dice are given below. Which is the number on the face opposite the face containing 1?



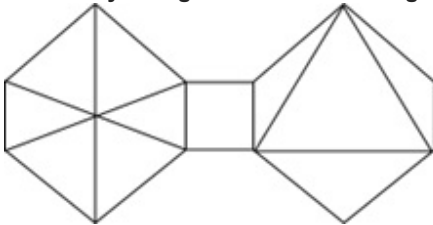
- Ans
- 1. 6
  - 2. 5
  - 3. 4
  - 4. 3

Q.20 Select the option that is related to the fifth term in the same way as the second term is related to the first term and fourth term is related to third term.

TRAINER : VTCIQHU :: RADIANT : TCFIDQW :: CUSHION : ?

- Ans
- 1. EWUHLRQ
  - 2. FWUHLRQ
  - 3. FXUHLRQ
  - 4. EXUHLRQ

Q.21 How many triangles are there in the given figure?

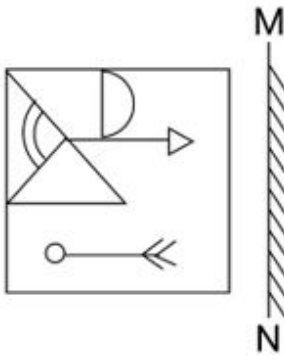


- Ans
- 1. 11
  - 2. 9
  - 3. 12
  - 4. 10

Q.22 In a certain code language, 'VAIN' is written as 'OKBY' and 'VAST' is written as 'UUBY'. How will 'VERB' be written in that language?

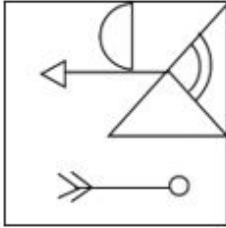
- Ans
- 1. CFTY
  - 2. CTFY
  - 3. CTYF
  - 4. CFYT

Q.23 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

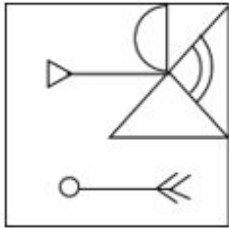


Ans

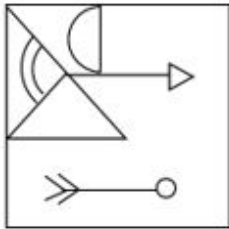
✓ 1.



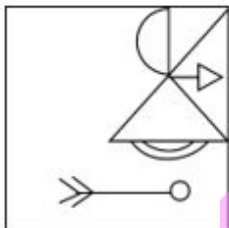
✗ 2.



✗ 3.



✗ 4.



Q.24 Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the one that is different.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

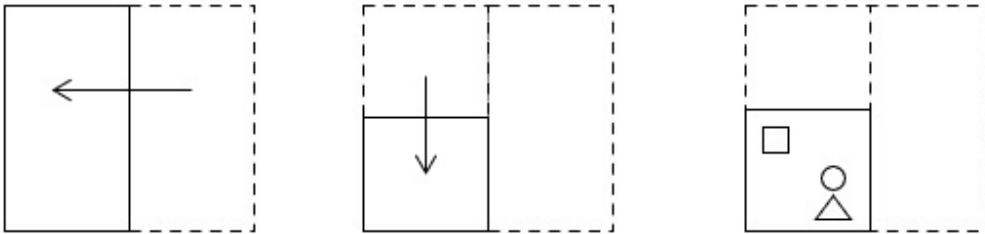
Ans ✗ 1. GDI

✗ 2. XUZ

✓ 3. LKP

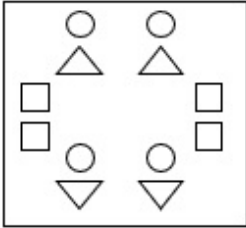
✗ 4. SPU

Q.25 A paper is folded and cut as shown below. How will it appear when unfolded?

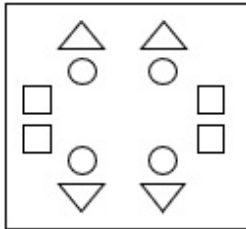


Ans

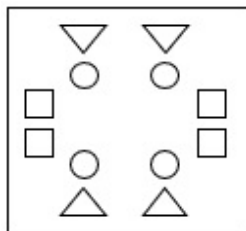
✗ 1.



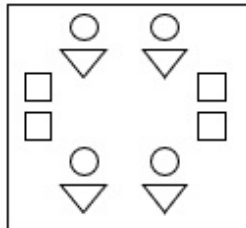
✗ 2.



✓ 3.



✗ 4.



Section : General Awareness

Q.1 *Taxus wallichiana* Zucc (Himalayan yew) is a medicinal plant found in which of the following states?

- Ans
- ✗ 1. Goa
  - ✗ 2. Jharkhand
  - ✓ 3. Himachal Pradesh
  - ✗ 4. Bihar

Q.2 Which of the following pairs is INCORRECTLY matched?

- Ans
- ✓ 1. Nucleus: Lipid metabolism
  - ✗ 2. Lysosomes: Suicidal bags
  - ✗ 3. Mitochondria: Power house of the cell
  - ✗ 4. Ribosomes: Protein factory

Q.3 Which of the following battles is considered the formal beginning of the British Raj in India?

- Ans
- ✗ 1. First Carnatic War
  - ✓ 2. Battle of Plassey
  - ✗ 3. Battle of Wandiwash
  - ✗ 4. Battle of Buxar



Q.4 Which of the following Indian states has the least number of operational airports as of 2022?

- Ans
- 1. Bihar
  - 2. Maharashtra
  - 3. Mizoram
  - 4. Karnataka

Q.5 Who among the following, while praising the amending feature of the Indian Constitution said that 'This variety in the amending process is wise but is rarely found'?

- Ans
- 1. Granville Austin
  - 2. Ivor Jennings
  - 3. K C Wheare
  - 4. HM Seervai

Q.6 Tabla player, Ustad Zakir Hussain was awarded which of the following awards by the Government of India in 2023?

- Ans
- 1. Bharat Ratna
  - 2. Padma Shri
  - 3. Padma Vibhushan
  - 4. Padma Bhushan

Q.7 Gangu bai Hangal and Prabha Atre were exponents of the \_\_\_\_\_ Gharana.

- Ans
- 1. Rampur
  - 2. Jaipur
  - 3. Kirana
  - 4. Mewati

Q.8 Which of the following famous Indian athletes won the Zurich Diamond League final 2022 in September 2022?

- Ans
- 1. Bajrang Punia
  - 2. Mirabai Chanu
  - 3. Neeraj Chopra
  - 4. PT Usha

Q.9 Which of the following Table Tennis World Championship events was held in India?

- Ans
- 1. 19<sup>th</sup> World Championships, 1952
  - 2. 17<sup>th</sup> World Championships, 1950
  - 3. 20<sup>th</sup> World Championships, 1953
  - 4. 18<sup>th</sup> World Championships, 1951

Q.10 Match the concepts in column A with their respective descriptions in column B.

Column A

- a. Devaluation
- b. Depreciation
- c. Deflation
- d. Exchange control

Column B

- 1. decline in the market rate of exchange
- 2. contraction of home currency
- 3. foreign exchange rationing
- 4. contraction of imports
- 5. official reduction in external value of the currency

- Ans
- 1. a-5, b-1, c-2, d-3
  - 2. a-2, b-3, c-4, d-1
  - 3. a-2, b-1, c-4, d-3
  - 4. a-5, b-3, c-2, d-1

**Q.11** When haloalkanes and aryl and vinyl halides react with magnesium metal they yield which reagent?

- Ans**
- 1. Hinsberg reagent
  - 2. Grignard reagent
  - 3. Tollens' reagent
  - 4. Fehling reagent

**Q.12** How many chambers are there in the heart of fishes?

- Ans**
- 1. 1
  - 2. 2
  - 3. 4
  - 4. 3

**Q.13** As per the report of the NITI Aayog in 2023, which among the following states in India has the lowest percentage of the total population that is multidimensionally poor?

- Ans**
- 1. Goa
  - 2. Kerala
  - 3. Sikkim
  - 4. Uttarakhand

**Q.14** What is the unit of measurement for optical power of the lens?

- Ans**
- 1. Yotta
  - 2. Katal
  - 3. Radian
  - 4. Diopter

**Q.15** The Government of India allowed automatic approval of \_\_\_\_\_% of FDI by Reserve Bank of India in nine categories of industries.

- Ans**
- 1. Up to 51
  - 2. Up to 60
  - 3. Up to 41
  - 4. Up to 74

**Q.16** Who among the following was the last sultan of Delhi sultanate?

- Ans**
- 1. Firoz Shah Tughlaq
  - 2. Sikandar Lodi
  - 3. Muhammad Bin Tughlaq
  - 4. Ibrahim Lodi

**Q.17** Which of the following cups/trophies is NOT related to the Indian domestic cricket?

- Ans**
- 1. Duleep Trophy
  - 2. Durand Cup
  - 3. Deodhar Trophy
  - 4. Ranji Trophy

**Q.18** In the context of water bodies, Neap Tides occur:

- Ans**
- 1. when the earth, moon and sun line up in a straight line
  - 2. when the sun and moon are on the opposite sides
  - 3. when there is so much interference by continents
  - 4. when the sun and moon are at right angles to each other

**Q.19** Chittani Ramachandra Hegde was associated with which of the following dances?

- Ans**
- 1. Chhau dance
  - 2. Chappeli dance
  - 3. Yakshagana dance
  - 4. Huttari dance

**Q.20** The idols of which three Gods are installed in Jagannath Temple, Puri?

- Ans**
- 1. Brahma, Vishnu and Mahesh
  - 2. Radha, Krishna and Balram
  - 3. Jagannath, Balabhadra and Subhadra
  - 4. Ram, Lakshman and Janaki

**Q.21** Anna Chandy, the first Indian woman to serve as a judge at a high court was appointed in which High Court?

- Ans**
- 1. West Bengal
  - 2. Kerala
  - 3. Tamil Nadu
  - 4. Andhra Pradesh

**Q.22** As in July 2021, The NIPUN Bharat Scheme was launched by which of the following Ministries?

- Ans**
- 1. Ministry of Health and Family Welfare
  - 2. Ministry of Education
  - 3. Ministry of Corporate Affairs
  - 4. Ministry of Agriculture and Farmers

**Q.23** Which Article of the Constitution of India expressly provides that the President is eligible for re-election?

- Ans**
- 1. Article 58
  - 2. Article 56
  - 3. Article 59
  - 4. Article 57

**Q.24** In which of the following cities did Mahatma Gandhi lead the peasant movement against the imposed indigo cultivation by the British planters?

- Ans**
- 1. Kheda
  - 2. Gorakhpur
  - 3. Bardoli
  - 4. Champaran

**Q.25** According to the Ashrama system of Vedic life, which of the following was the third stage of life?

- Ans**
- 1. Grihastha
  - 2. Sanyasa
  - 3. Brahmacharya
  - 4. Vanaprastha

Section : Quantitative Aptitude

**Q.1** In  $\triangle PQR$ , M, N, and S are the mid-points of sides PQ, PR and QR, respectively. If the area of the  $\triangle PQR$  is  $46 \text{ cm}^2$ , what is the area (in  $\text{cm}^2$ ) of the quadrilateral MNRQ?

- Ans**
- 1. 39
  - 2. 27.6
  - 3. 23
  - 4. 34.5

**Q.2** The salary of a worker is first increased by 25%, then it is decreased by 12%. The percentage change in his salary is:

- Ans**
- 1. 10% increase
  - 2. 13% increase
  - 3. 10% decrease
  - 4. 13% decrease

**Q.3** Pipe A usually fills a tank in 6 hours. But due to a leak at the bottom of the tank, it takes extra 2 hours to fill the tank. If the tank is full, then how much time will it take to get emptied due to the leak?

- Ans**
- 1. 16 hours
  - 2. 20 hours
  - 3. 12 hours
  - 4. 24 hours

**Q.4** Evaluate the value of  $(\operatorname{cosec}56^\circ \cos34^\circ - \cos59^\circ \operatorname{cosec}31^\circ)$ .

- Ans**
- 1. 1
  - 2. 2
  - 3. -1
  - 4. 0

**Q.5** The following table shows the sales of cars of five manufacturers from 2016 to 2020.

(All the figures are in hundreds.)

Manufacturer	2016	2017	2018	2019	2020
M <sub>1</sub>	180	190	200	210	220
M <sub>2</sub>	160	170	180	190	200
M <sub>3</sub>	190	200	210	220	230
M <sub>4</sub>	200	210	220	230	240
M <sub>5</sub>	210	220	230	240	250

What is the difference between the total number of sales of manufacturer M<sub>2</sub> and the total number of sales of manufacturer M<sub>4</sub> during the years 2016 to 2019?

- Ans**
- 1. 12000
  - 2. 18000
  - 3. 14000
  - 4. 16000

Q.6 The following table shows scores in different subjects obtained by Akshay in school. Study the table and answer the question that follows.

Subject	Marks obtained	Total Marks
English	73	100
Hindi	56	80
Science	45	75
Mathematics	90	125
IT	45	60

In which subject did he score the highest marks (in %)?

- Ans
- 1. IT
  - 2. English
  - 3. Hindi
  - 4. Mathematics

Q.7 How many years will it take for ₹8,400 to amount to ₹11,928 at a simple interest rate of 7% per annum?

- Ans
- 1. 8
  - 2. 5
  - 3. 2
  - 4. 6

Q.8 Find the area of a square, one of whose diagonals is 4.8 m long.

- Ans
- 1.  $12.5 \text{ m}^2$
  - 2.  $10.5 \text{ m}^2$
  - 3.  $9.5 \text{ m}^2$
  - 4.  $11.52 \text{ m}^2$

Q.9 Which of the following numbers is divisible by both 2 and 5?

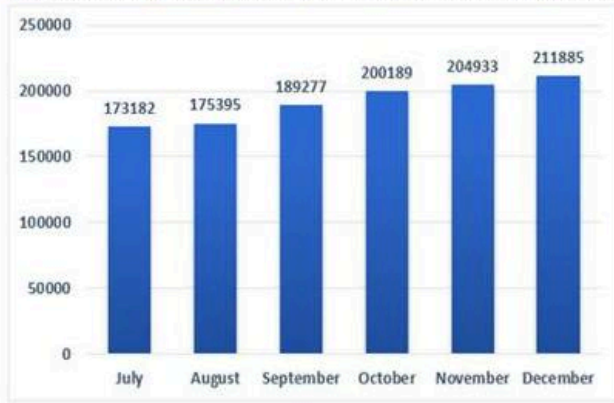
- Ans
- 1. 63840
  - 2. 20792
  - 3. 37915
  - 4. 37254

Q.10 Find the quotient, when the mean proportional of  $7\frac{1}{5}$  and 245 is divided by an even prime number.

- Ans
- 1. 49
  - 2. 42
  - 3. 21
  - 4. 36

Q.11

The following bar graph shows the circulation growth of a magazine ABC from July 2022 to December 2022.



During October to December there was an even growth rate, the average of which, is (correct up to one decimal place):

- Ans
- 1. 3.2%
  - 2. 2.4%
  - 3. 2.9%
  - 4. 3.8%

Q.12

Simplify:

$$1020 \div \left[ \frac{4}{3} \text{ of } (26 + 4) - 11 \frac{2}{3} \right]$$

- Ans
- 1. 28
  - 2. 36
  - 3. 17
  - 4. 31

Q.13 If the ratio of the areas of two similar triangles is 25 : 144, the ratio of their corresponding sides is:

- Ans
- 1. 5 : 12
  - 2. 5 : 144
  - 3. 25 : 12
  - 4. 12 : 5

Q.14 Five different companies, P, Q, R, S and T, manufacture plastic and wooden bats. These bats are labelled as Brand A or Brand B. The given table shows the number of wooden bats as a percentage of the total bats manufactured by each company. It also shows the ratio of plastic bats labelled as Brand A to Brand B. Each company manufactures 1,00,000 bats. Study the table carefully and answer the question that follows.

Company	Wooden bats	Brand A : Brand B
P	65%	3 : 7
Q	70%	7 : 8
R	60%	19 : 6
S	70%	7 : 8
T	50%	2 : 3

Taking all companies together, how many plastic bats of Brand B have been manufactured?

- Ans
- 1. 86,100
  - 2. 96,100
  - 3. 90,500
  - 4. 80,500

Q.15 Find the average of the prime numbers lying between 50 and 76.

- Ans
- 1. 66
  - 2. 60
  - 3. 62
  - 4. 64

Q.16 In a triangle  $\Delta ABC$ , the  $\angle ABC = 90^\circ$ . If  $\sin(A) = \frac{1}{2}$ , then  $\cos(C)$  is equal to:

- Ans
- 1.  $\frac{1}{\sqrt{2}}$
  - 2. 1
  - 3.  $\frac{\sqrt{3}}{2}$
  - 4.  $\frac{1}{2}$

Q.17 Simplify

$$\frac{(4.2)^3 - (1.2)^3}{(4.2)^2 + 5.04 + (1.2)^2}$$

- Ans
- 1. 2
  - 2. 3
  - 3. 1
  - 4. 5

Q.18 If  $0.4x + 0.16y = 1.7$  and  $0.3x + 0.12y = 3.4$ , then which of the following is correct?

- Ans
- 1. The system has finitely many solutions but not unique.
  - 2. The system has infinitely many solutions.
  - 3. The system has no solution.
  - 4. The system has unique solution.

Q.19 S borrowed some amount from R and promised to pay him 8% interest. Then S invested the borrowed amount in a scheme, upon which he earned a profit of 5% after paying R, the principal amount with interest. How much percentage R would have gained, if he would have invested in the scheme directly?

- Ans
- 1. 13.4%
  - 2. 13%
  - 3. 14.4%
  - 4. 14%

Q.20 Find the value of:

$$\left[ \frac{4}{3} \tan^2 60^\circ + 3 \cos^2 30^\circ - 2 \sec^2 30^\circ - \frac{3}{4} \cot^2 60^\circ \right] \div [\sin 60^\circ \cos 30^\circ - \cos 60^\circ \sin 30^\circ]$$

- Ans
- 1.  $6\frac{2}{3}$
  - 2.  $3\frac{1}{2}$
  - 3.  $4\frac{1}{3}$
  - 4.  $6\frac{3}{2}$

Q.21 In a triangle  $\Delta ABC$ ,  $AB = AC$  and  $\angle A = 80^\circ$ , then find  $\angle B$ .

- Ans
- 1.  $50^\circ$
  - 2.  $80^\circ$
  - 3.  $40^\circ$
  - 4.  $45^\circ$

Q.22 The cost price of a bat is 75% of the marked price. Calculate the gain percentage after allowing a discount of 15%.

- Ans
- 1. 25.6%
  - 2. 13.33%
  - 3. 18.16%
  - 4. 21.33%

Q.23  $\Delta ABC$  and  $\Delta RPQ$  are congruent, then the side of  $\Delta ABC$  that corresponds to  $PQ$  is:

- Ans
- 1. AB
  - 2. CA
  - 3. AR
  - 4. BC

Q.24 A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km/h and 11 km/h, respectively. What is the distance (in metres) between them after 9 minutes?

- Ans
- 1. 40
  - 2. 50
  - 3. 30
  - 4. 60



Q.25 The value of the expression  $(1.55^2 + 0.55^2 + 1.55 \times 0.55)$  is equal to:

- Ans
- 1.  $1.55^2 - 0.55^2$
  - 2.  $1.55^3 - 0.55^3$
  - 3.  $1.55^3 + 0.55^3$
  - 4.  $1.55^2 + 0.55^2$

Section : English Comprehension

Q.1 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.  
Neither my brother nor my brothers-in-law / attended the meeting / as his health is not more good.

- Ans
- 1. Neither my brother nor my brothers-in-law
  - 2. attended the meeting
  - 3. No error
  - 4. as his health is not more good

Q.2 Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct sequence to form a meaningful sentence.

- (P) kindness and empathy
- (Q) in a world that can be
- (O) bring light and positivity
- (R) harsh and challenging

- Ans
- 1. PORQ
  - 2. ROQP
  - 3. QRPO
  - 4. QROP

Q.3 Select the INCORRECTLY spelt word from the given sentence .

She recieved an award for her outstanding performance.

- Ans
- 1. recieved
  - 2. award
  - 3. performance
  - 4. outstanding

Q.4 Select the most appropriate meaning of the given idiom.  
To read between the lines

- Ans
- 1. To underline some words
  - 2. To read differently
  - 3. To read aloud to public
  - 4. To understand more than what the words suggest

Q.5 Select the word OPPOSITE in meaning to the given word.  
Deficient

- Ans
- 1. Skimpy
  - 2. Broken
  - 3. Ample
  - 4. Terrible

Q.6 Select the most appropriate ANTONYM of the given word.  
Meander

- Ans
- 1. Ramble
  - 2. Deputise
  - 3. Confirm
  - 4. Direct

Q.7 Select the most appropriate ANTONYM of the underlined word in the following sentence.  
In Shakespeare's The Merchant of Venice, Shylock's connivance aimed to jeopardise Antonio's life.

- Ans
- 1. Safeguard
  - 2. Risk
  - 3. Peril
  - 4. Jape

Q.8 Select the most appropriate option to fill in the blank.  
Two of the fugitives managed to remain free by adeptly avoiding the \_\_\_\_\_ of the police.

- Ans
- 1. following
  - 2. repression
  - 3. pursuit
  - 4. discovery

Q.9 Select the correctly spelt word.

- Ans
- 1. Conscientous
  - 2. Conscencious
  - 3. Conscientious
  - 4. Conscietious

Q.10 Select the option that can replace the underlined phrase and make the sentence grammatically correct.  
The programme on TV was now shown the blurring faces of the inmates of the rehabilitation centre .

- Ans
- 1. were now showing the blurred faces of the inmates of the rehabilitation centre.
  - 2. was now showing the blurred faces of the inmates of the rehabilitation centre
  - 3. were now showing the blurring faces of the inmates from the rehabilitation centre
  - 4. was now showing the blurred faces of the inmates upon the rehabilitation centre

Q.11 Given below are four jumbled sentences. Select the option that gives their correct logical sequence.

- A. It contains high levels of Vitamin A and D.
- B. Cod liver oil is thus used to treat arthritis.
- C. This supplement is made from the liver of cod fish.
- D. Cod liver oil is a nutritional supplement.

- Ans
- 1. ABCD
  - 2. CBAD
  - 3. DCAB
  - 4. BACD

Q.12 Select the option that can be used as a one-word substitute for the given group of words.

A person who is trained to travel in a spacecraft.

- Ans
- 1. Astronaut
  - 2. Anthropologist
  - 3. Alchemist
  - 4. Curator

**Q.13** Select the most appropriate synonym of the given word.  
Merit

- Ans
- 1. Fatigue
  - 2. Oblique
  - 3. Virtue
  - 4. Residue

**Q.14** Select the most appropriate synonym of the given word.  
Jovial

- Ans
- 1. Miserable
  - 2. Solemnity
  - 3. Cheerful
  - 4. Profane

**Q.15** Select the option that expresses the given sentence in passive voice.  
Each candidate was making tall promises.

- Ans
- 1. Tall promises were being made by each candidate.
  - 2. Tall promises are made by each candidate.
  - 3. Tall promises will be made by each candidate.
  - 4. Tall promises are being made by each candidate.

**Q.16** Select the most appropriate meaning of the given idiom.

Jump the gun

- Ans
- 1. To start all over again
  - 2. Using a gun for sports
  - 3. To stop a process
  - 4. To do something too soon and too quickly

**Q.17** Select the most appropriate synonym of the underlined word in the given sentence.  
Layla is the Sultan's consort.

- Ans
- 1. Foe
  - 2. Alcoholic
  - 3. Enemy
  - 4. Partner

**Q.18** Parts of the following sentence have been given as options. Select the option that contains an error.  
Rahul thinks he is as smarter as his friends in the class.

- Ans
- 1. his friends
  - 2. he is as smarter as
  - 3. Rahul thinks
  - 4. in the class

**Q.19** In the given question, a statement divided into different segments is given. Rearrange all the segments to form a coherent statement.

O: population is expected to triple in

P: the next 50 years

Q: among the world's poorest countries

R: population shrinkage in that period

S: whereas many rich countries will see

- Ans
- 1. POSQR
  - 2. RSOPQ
  - 3. SPORQ
  - 4. QOPSR

**Q.20** Select the option that expresses the following sentence in active voice.  
The car was repaired by the mechanic.

- Ans**
- 1. The mechanic repairs the car.
  - 2. The mechanic has repaired the car.
  - 3. The mechanic is repairing the car.
  - 4. The mechanic repaired the car.

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Appearances may not reveal the man. So, you shouldn't make (1) \_\_\_\_\_ about a man's character based on how he (2) \_\_\_\_\_. People smile and smile, yet prove to be (3) \_\_\_\_\_. On the other hand, people with rough exteriors prove to be the (4) \_\_\_\_\_ and most considerate people on earth. They are the people who are beautiful from (5) \_\_\_\_\_.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.(

- Ans**
- 1. ascend
  - 2. derivations
  - 3. deficient
  - 4. assumptions

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Appearances may not reveal the man. So, you shouldn't make (1) \_\_\_\_\_ about a man's character based on how he (2) \_\_\_\_\_. People smile and smile, yet prove to be (3) \_\_\_\_\_. On the other hand, people with rough exteriors prove to be the (4) \_\_\_\_\_ and most considerate people on earth. They are the people who are beautiful from (5) \_\_\_\_\_.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.(

- Ans**
- 1. admits
  - 2. shows
  - 3. glitters
  - 4. looks

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Appearances may not reveal the man. So, you shouldn't make (1) \_\_\_\_\_ about a man's character based on how he (2) \_\_\_\_\_. People smile and smile, yet prove to be (3) \_\_\_\_\_. On the other hand, people with rough exteriors prove to be the (4) \_\_\_\_\_ and most considerate people on earth. They are the people who are beautiful from (5) \_\_\_\_\_.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.(

- Ans**
- 1. grumpy
  - 2. ecstatic
  - 3. joyful
  - 4. sparkling

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Appearances may not reveal the man. So, you shouldn't make (1) \_\_\_\_\_ about a man's character based on how he (2) \_\_\_\_\_. People smile and smile, yet prove to be (3) \_\_\_\_\_. On the other hand, people with rough exteriors prove to be the (4) \_\_\_\_\_ and most considerate people on earth. They are the people who are beautiful from (5) \_\_\_\_\_.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.(

- Ans**
- 1. bitterest
  - 2. strangest
  - 3. gloomiest
  - 4. kindest

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Appearances may not reveal the man. So, you shouldn't make (1) \_\_\_\_\_ about a man's character based on how he (2) \_\_\_\_\_. People smile and smile, yet prove to be (3) \_\_\_\_\_. On the other hand, people with rough exteriors prove to be the (4) \_\_\_\_\_ and most considerate people on earth. They are the people who are beautiful from (5) \_\_\_\_\_.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.(

- Ans**
- 1. within
  - 2. personality
  - 3. style
  - 4. exterior

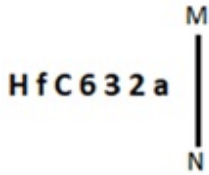
KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	11/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

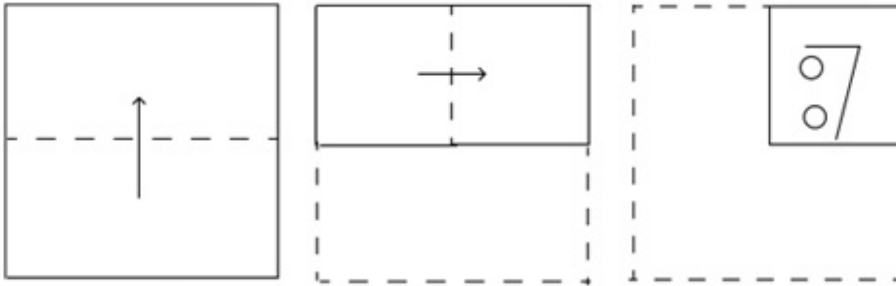
Q.1 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans
- 1. sSεθC†H
  - 2. HfC632a
  - 3. H†Cε 2εa
  - 4. H†Cε35a

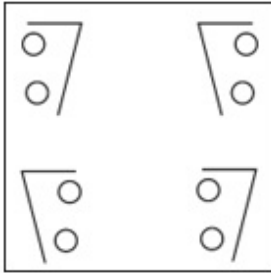
KD JOB UPDATES

Q.2 A paper is folded and cut as shown below. How will it appear when unfolded?

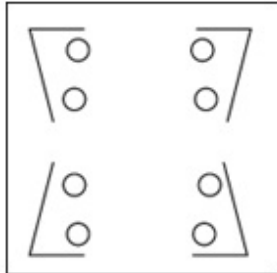


Ans

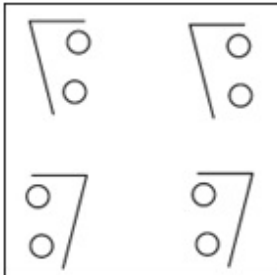
✗ 1.



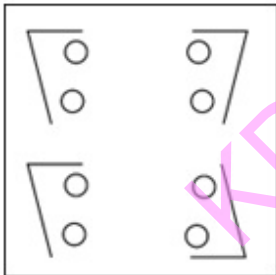
✓ 2.



✗ 3.



✗ 4.



Q.3 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$304 \times 19 - 101 + 23 \div 5 = ?$$

Ans ✗ 1. 21

✗ 2. 12

✓ 3. 2

✗ 4. 6

Q.4 The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✗ 1. 56 : 9

✗ 2. 44 : 7

✗ 3. 68 : 11

✓ 4. 72 : 12

**Q.5** Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

Some rats are mouse.

No mouse is a rodent.

Some rats are kittens.

**Conclusions:**

I. No rodent is a kitten.

II. Some rats are rodent.

III. No kitten is a mouse.

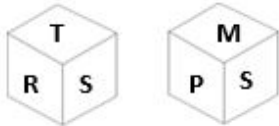
**Ans**  1. Only conclusion III follows

2. Only conclusion II follows

3. Neither conclusion follows

4. Only conclusion I follows

**Q.6** Two different positions of the same dice with faces R, P, T, S, M and B are shown below. Select the letter that will be on the face opposite to the one having S.



**Ans**  1. B

2. T

3. M

4. R

**Q.7** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

**Note :** The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

**Ans**  1. ONM

2. BCD

3. RST

4. JKL

**Q.8** Select the combination of letters that when sequentially placed in the blanks of the given series will logically complete the series.

BYN\_J\_YNF\_X\_NFJVY\_FJ

**Ans**  1. FZJYN

2. FNJYV

3. FZYVJ

4. FJZNY

**Q.9** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$164 - 173 \div 110 + 140 \times 5 = ?$

**Ans**  1. 19616

2. 11619

3. 19166

4. 11916



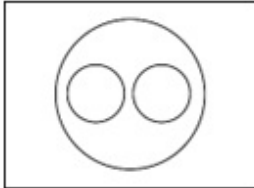
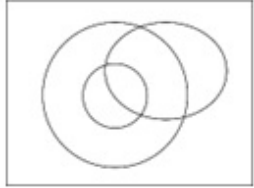
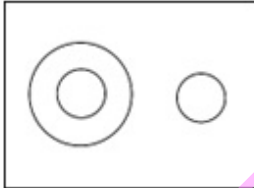
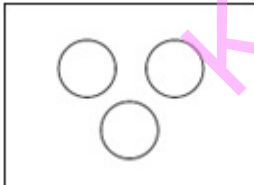
Q.10 In a certain code language,  
R + T means 'R is the sister of T'.  
R - T means 'R is the father of T'.  
R \* T means 'R is the wife of T'.  
R ÷ T means 'R is the mother of T'.  
Based on the above, how is M related to Q if 'M \* N - P + Q ÷ R + T'?

- Ans
- 1. Mother's mother
  - 2. Mother
  - 3. Sister
  - 4. Mother's sister

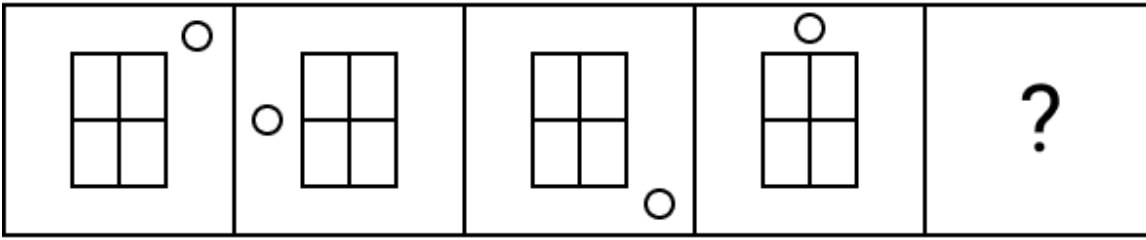
Q.11 In a certain code language, 'MAN' is coded as '15316' and 'SHE' is coded as '21107'. How will 'OUT' be coded in that language?

- Ans
- 1. 152120
  - 2. 172121
  - 3. 172322
  - 4. 152222

Q.12 Select the Venn diagram that best illustrates the relationship between the following classes.  
Men, Engineers and Fathers

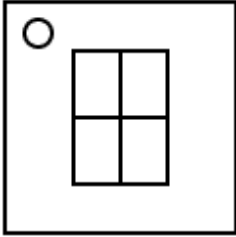
- Ans
- 1. 
  - 2. 
  - 3. 
  - 4. 

Q.13 Select the figure from among the given options which when put in place of the question mark (?) will logically complete the series.

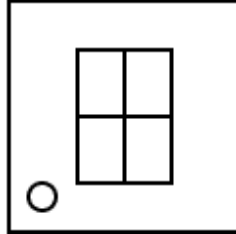


Ans

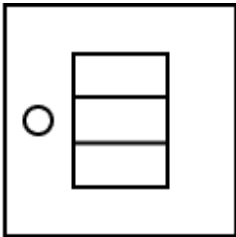
✗ 1.



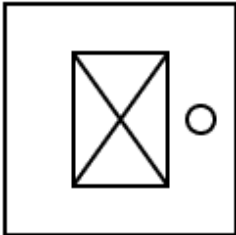
✓ 2.



✗ 3.



✗ 4.



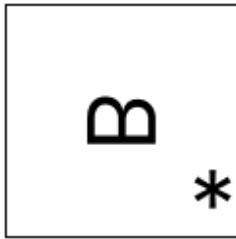
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Q.14 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

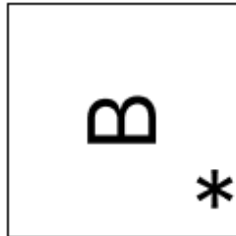
* B	* B	* B	B *	?
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Ans

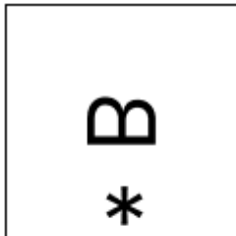
✗ 1.



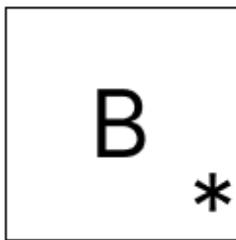
✓ 2.



✗ 3.



✗ 4.



Q.15 Which of the following numbers will replace the question mark (?) in the given series?  
12, 25, 49, ?, 197, 395

Ans ✗ 1. 100

✗ 2. 121

✓ 3. 99

✗ 4. 96

Q.16 All of the letters in the word 'JUNGLE' are arranged in alphabetical order. How many letters are there in the English alphabetical series between the letter which is second from the left end and the one which is third from the right end in the new letter-cluster thus formed?

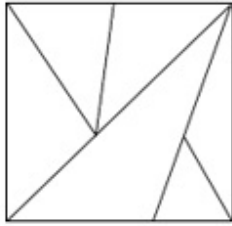
Ans ✗ 1. Three

✗ 2. Two

✗ 3. Five

✓ 4. Four

Q.17 What is the number of triangles in the following figure?



- Ans
- 1. 10
  - 2. 11
  - 3. 8
  - 4. 9

Q.18 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
OUR : NPTVQS :: BIG : ACHJFH :: FOR : ?

- Ans
- 1. EGNPQS
  - 2. GENPRS
  - 3. EGNOQR
  - 4. GEPNSQ

Q.19 Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Calcium : Osteomalacia

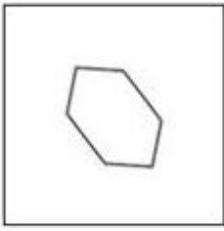
- Ans
- 1. Stomach : Blindness
  - 2. Iron : Anaemia
  - 3. Heart : Cardiovascular
  - 4. Lungs : Tuberculosis

Q.20 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

17 : 253  
19 : 271

- Ans
- 1. 21 : 289
  - 2. 23 : 207
  - 3. 31 : 400
  - 4. 32 : 387

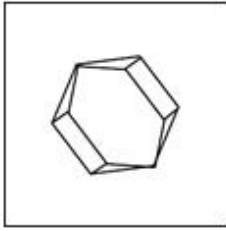
Q.21 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



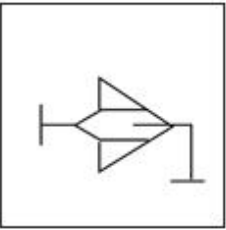
(X)

Ans

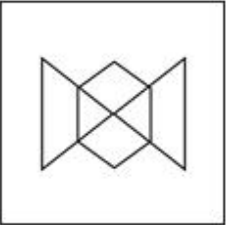
✓ 1.



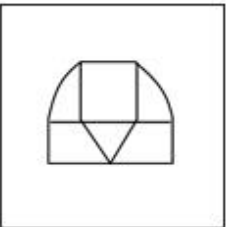
✗ 2.



✗ 3.



✗ 4.



Q.22 Select the set in which the numbers are related in the same way as are the numbers of the following set.  
(66, 57, 48)  
(94, 85, 76)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✗ 1. (85, 77, 64)

✓ 2. (81, 72, 63)

✗ 3. (98, 90, 83)

✗ 4. (79, 70, 59)

Q.23 In a certain code language, BRING is coded as '7149182' and SMILE is coded as '51291319'. What will be the code for FORGIVE?

Ans ✗ 1. 5229179156

✗ 2. 5228717156

✗ 3. 5219717166

✓ 4. 5229718156

**Q.24** Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

14 – 196 – 186 – 172; 15 – 225 – 215 – 200

**Ans** ✓ 1. 9 – 81 – 71 – 62

✗ 2. 3 – 9 – 19 – 14

✗ 3. 8 – 64 – 54 – 40

✗ 4. 6 – 36 – 26 – 22

**Q.25** Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

RF \_ GTR \_ VG \_ RFV \_ T \_ FVGT

**Ans** ✓ 1. VFTGR

✗ 2. VFTGG

✗ 3. VTTGR

✗ 4. VFGVR

Section : General Awareness

**Q.1** Who developed the theory of combustion as a chemical reaction with oxygen in the 18th century, that excluded phlogiston theory?

**Ans** ✓ 1. Antoine Lavoisier

✗ 2. Robert Boyle

✗ 3. Friedrich Wöhler

✗ 4. Johann Becher

**Q.2** What do we mean by Allen's rule?

**Ans** ✓ 1. Mammals from colder climates generally have shorter ears and limbs to minimise heat loss.

✗ 2. Desert lizards lack the physiological ability that mammals have to deal with the high temperatures of their habitat.

✗ 3. Some plants have no leaves – they are reduced to spines – and the photosynthetic function is taken over by the flattened stems.

✗ 4. The body compensates low oxygen availability by increasing red blood cell production, decreasing the binding affinity of haemoglobin and by increasing the breathing rate.

**Q.3** Which of the following schemes enables students mobility across Higher Education Institutions?

**Ans** ✗ 1. National Educational Technology Forum

✗ 2. PM Umeed scheme

✗ 3. Structured Assessment for Analysing Learning Levels (SAFAL)

✓ 4. Academic Bank of Credits

**Q.4** Which of the following Constitutions inspired the law-making process in India?

**Ans** ✗ 1. Irish Constitution

✓ 2. British Constitution

✗ 3. US Constitution

✗ 4. Canadian Constitution

**Q.5** Which of the following definitions best describes the concept of microfinance?

- Ans**
- 1. A microfinance institution is a company registered under the Companies Act, 1956, and engaged in the business of loans and advances and acquisition of shares/stocks/bonds/debentures/securities issued by the government.
  - 2. Microfinance is a banking service provided to unemployed or low-income individuals or groups, who otherwise would have no other access to financial services.
  - 3. A microfinance institution is a digital-only and mobile-first bank.
  - 4. Microfinance refers to providing banking services to individuals living in rural areas.

**Q.6** Ernest Rutherford used about \_\_\_\_\_ thick gold foil for alpha scattering experiments.

- Ans**
- 1. 500 atoms
  - 2. 1000 atoms
  - 3. 900 atoms
  - 4. 700 atoms

**Q.7** In May 2022, Then President Ram Nath Kovind appointed \_\_\_\_\_ as the Lieutenant Governor of Delhi.

- Ans**
- 1. Kiran Bedi
  - 2. Anil Bajjal
  - 3. Vijai Kapoor
  - 4. Vinai Kumar Saxena

**Q.8** How many players are there on each side of the Kabaddi Team in the field?

- Ans**
- 1. 9
  - 2. 7
  - 3. 8
  - 4. 10

**Q.9** Which of the following events took place in the United Provinces in February, 1922?

- Ans**
- 1. Quit India
  - 2. Chauri Chaura
  - 3. Khilafat Movement
  - 4. Kakori Incident

**Q.10** The Mahalanobis model was the basis for which Five-Year Plan?

- Ans**
- 1. Fourth Five-Year Plan
  - 2. Second Five-Year Plan
  - 3. Sixth Five-Year Plan
  - 4. First Five-Year Plan

**Q.11** In which state of India was the Neeru-Meeru programme introduced for construction of water harvesting structures?

- Ans**
- 1. Andhra Pradesh
  - 2. Rajasthan
  - 3. Uttar Pradesh
  - 4. Punjab

**Q.12** Lata Mangeshkar was honoured with the Bharat Ratna in the year \_\_\_\_\_.

- Ans**
- 1. 2001
  - 2. 2003
  - 3. 2004
  - 4. 2002

Q.13 In which of the following districts of Rajasthan are the 'Barchans' found?

- Ans
- 1. Udaipur
  - 2. Jaisalmer
  - 3. Bhilwara
  - 4. Alwar

Q.14 Which of the following types of unemployment is found in India when people are employed for a certain period of a year in tourist resorts and various tourism-related activities in the mountain regions, but are unemployed in off-seasons?

- Ans
- 1. Seasonal unemployment
  - 2. Under employment
  - 3. Disguised unemployment
  - 4. Cyclical unemployment

Q.15 When was the Jawaharlal Nehru Manipur Dance Academy established?

- Ans
- 1. 1951
  - 2. 1953
  - 3. 1954
  - 4. 1952

Q.16 'Poush Mela' is a unique festival celebrated in which of the following Indian states?

- Ans
- 1. Uttar Pradesh
  - 2. Himachal Pradesh
  - 3. West Bengal
  - 4. Madhya Pradesh

Q.17 According to which of the following foreign travellers, people of Delhi used to write letters containing abuses to the Sultan, therefore, in order to punish them Sultan decided to shift the capital?

- Ans
- 1. Isami
  - 2. Hasan Nizami
  - 3. Ibn Batuta
  - 4. Al Biruni

Q.18 In 2022, which of the following railway stations has been selected for the 'One Station One Product' scheme launched by Indian Railways, which identifies Kanchipuram sarees as the chosen product?

- Ans
- 1. Howrah
  - 2. Visakhapatnam
  - 3. Chennai Central
  - 4. Patna Jn

Q.19 With reference to Morley-Minto Reforms of 1909, consider the following statements.

- a) They are also called the Indian Councils Act, 1909.
  - b) They increased the strength of Legislative Councils.
  - c) The right to separate electorate was given to the Muslims.
- Which of the above statements is/are correct?

- Ans
- 1. b, c
  - 2. a, b, c
  - 3. c, a
  - 4. a, b



**Q.20** How long will a sound wave take to travel 1.5km, which has a frequency of 5 kHz and wavelength of 6 cm?

- Ans**
- 1. 2.5 seconds
  - 2. 50 seconds
  - 3. 5 seconds
  - 4. 25 seconds

**Q.21** Which Article of the Constitution of India deals with the conduct of business of the Government of a state?

- Ans**
- 1. Article 177
  - 2. Article 167
  - 3. Article 164
  - 4. Article 166

**Q.22** Hariprasad Chaurasia, an Indian flutist in the Hindustani classical tradition, was awarded with which of the following awards in 2000?

- Ans**
- 1. Padma Shri
  - 2. Padma Vibhushan
  - 3. Bharat Ratna
  - 4. Padma Bhushan

**Q.23** Which of the following terms is NOT related to cricket?

- Ans**
- 1. Wide Ball
  - 2. Wicket
  - 3. No Ball
  - 4. Deuce

**Q.24** Vasudeva I who issued coins in gold (dinars and quarter dinars) and copper (single denomination) was a \_\_\_\_\_ king.

- Ans**
- 1. Shunga
  - 2. Vakataka
  - 3. Shaka
  - 4. Kushana

**Q.25** What is the reason for the similar size of the vascular bundle in monocot leaves?

- Ans**
- 1. Cubical venation
  - 2. Radial venation
  - 3. Rectangular venation
  - 4. Parallel venation

Section : Quantitative Aptitude

**Q.1** Naman bought few apples for ₹720 from a shop. He negotiated the price and the shopkeeper reduced it by ₹2 per apple. Due to this Naman could buy four more apples than what he had bought earlier. How many apples did he originally buy?

- Ans**
- 1. 48
  - 2. 44
  - 3. 36
  - 4. 40

Q.2 The tank is filled by three pipes with different uniform flow rates. While the first two pipes are operating simultaneously, they fill the tank in the same duration that the third pipe takes to fill it alone. The second pipe can fill the tank 5 hours quicker than the first pipe, yet 4 hours slower than the third pipe. What is the time (in hours) needed for the first pipe to fill the tank?

- Ans
- 1. 1.18
  - 2. 12
  - 3. 9
  - 4. 15

Q.3 In a  $\Delta ABC$ , if  $\frac{1}{2} \angle A + \angle B + \angle C = 120^\circ$ , then the value of  $\frac{1}{4} \angle A$  is:

- Ans
- 1.  $20^\circ$
  - 2.  $40^\circ$
  - 3.  $60^\circ$
  - 4.  $30^\circ$

Q.4 Sohan borrows a sum of ₹1,41,545 at the rate of 11% per annum simple interest. At the end of the first year, he repays ₹25,490 towards return of principal amount borrowed. If Sohan clears all pending dues at the end of the second year, including interest payment that accrued during the first year, how much does he pay (in ₹) at the end of the second year?

- Ans
- 1. 1,44,391
  - 2. 1,36,453
  - 3. 1,41,222
  - 4. 1,37,407

Q.5 The table given here represents the distance (in km) travelled by two athletes X and Y in the same direction.

Hour	Distance Travelled (in Km)	
	X	Y
1 <sup>st</sup>	25	30
2 <sup>nd</sup>	35	45
3 <sup>rd</sup>	25	40
4 <sup>th</sup>	20	30
5 <sup>th</sup>	25	20
6 <sup>th</sup>	20	15

Y's average speed (km/hour) during the first five hours is:

- Ans
- 1. 33
  - 2. 31
  - 3. 34
  - 4. 32

Q.6 Express  $\sin 74^\circ + \tan 74^\circ$  in terms of trigonometric ratios of angles between  $0^\circ$  and  $45^\circ$ .

- Ans
- 1.  $\sec 16^\circ + \cot 16^\circ$
  - 2.  $\operatorname{cosec} 16^\circ + \sec 16^\circ$
  - 3.  $\operatorname{cosec} 16^\circ + \cot 16^\circ$
  - 4.  $\cos 16^\circ + \cot 16^\circ$

Q.7 A cuboid of dimensions 50 cm, 150 cm, 175 cm can be divided into how many identical largest cubes?

- Ans
- 1. 75
  - 2. 84
  - 3. 85
  - 4. 90

Q.8 The given table shows the number of bananas produced by five farms over 4 years.

Year	Farm				
	L	M	N	O	P
2020	17,500	14,180	16,300	17,405	15,805
2021	11,200	13,900	14,600	15,304	16,207
2022	12,300	17,652	14,800	15,150	16,404
2023	14,650	15,558	17,465	14,185	15,450

What is the respective ratio of the dozens of bananas produced by farm M to farm P in the year 2022?

- Ans
- 1. 1471 : 1367
  - 2. 1230 : 1331
  - 3. 1367 : 1471
  - 4. 1331 : 1230

Q.9 If Ram purchases a fan, he gets 8% discount, however, if he purchases three fans he gets 6% on the first, 10% on the second and 12% on the third. If the price paid by the Ram for three fans is ₹6,800, then what will be the marked price of each fan?

- Ans
- 1. ₹2,400
  - 2. ₹2,500
  - 3. ₹2,450
  - 4. ₹2,550

Q.10 A boat can go 54 km upstream in 6 hours. If the speed of the stream is 4.8 km/h, then how much time (in hours) will the boat take to cover a distance of 279 km downstream?

- Ans
- 1. 20
  - 2. 15
  - 3. 18
  - 4. 16

Q.11 P and Q are centres of two circles whose radii are 7 cm and 3 cm, respectively. If the direct common tangents to the circles meet PQ extended at A, then A divides PQ \_\_\_\_\_.

- Ans
- 1. externally in the ratio 3 : 7
  - 2. internally in the ratio 3 : 7
  - 3. externally in the ratio 7 : 3
  - 4. internally in the ratio 7 : 3

Q.12 Consider the given table for total imports of goods of 5 companies over 5 years (in lakhs), and answer the question that follows.

Companies	R	S	T	U	V
Year					
2012	60	40	15	45	25
2013	30	60	70	15	90
2014	51	25	55	100	110
2015	45	51	20	70	65
2016	24	35	60	55	125

If the total exports of all companies together in the year 2013 is ₹300 lakh, then the profit/loss of all companies together in year 2013 is:  
(Assume: Profit = Exports – Imports)

- Ans
- 1. loss of ₹27 lakh
  - 2. loss of ₹18 lakh
  - 3. profit of ₹30 lakh
  - 4. profit of ₹35 lakh

Q.13 Simplify the following expression.

$$\left(\frac{3}{a} + 3a\right)\left(\frac{9}{a^2} - 9 + 9a^2\right) \text{ if } a = 1$$

- Ans
- 1. 27
  - 2. 63
  - 3. 81
  - 4. 54

Q.14 The percentage distribution of expenditure over various items of Saloni's monthly income is given in the following table. Study the table carefully and answer the question that follows.

Items	Rent	Food	Education	Bills	Miscellaneous
Percentage distribution	30%	20%	25%	20%	5%

If Saloni's monthly income is ₹75,000, how much money (in ₹) does she spend on Rent and Education?

- Ans
- 1. 42,150
  - 2. 43,250
  - 3. 40,150
  - 4. 41,250

Q.15 If  $x + \frac{1}{9x} = 3$ , then the value of  $9x^2 + \frac{1}{9x^2}$  is:

- Ans
- 1. 87
  - 2. 81
  - 3. 77
  - 4. 79

Q.16 Find the gain percentage, given that Siddhi sold her scooter for ₹31902 gaining  $\frac{1}{6}$ th of the selling price.

- Ans
- 1. 20%
  - 2. 30%
  - 3. 25%
  - 4. 5%

Q.17 A class of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 74. What is the average score of the class?

- Ans
- 1. 70.2
  - 2. 69.2
  - 3. 68.2
  - 4. 67.2

Q.18 If  $p \sin A - \cos A = 1$ , then  $p^2 - (1 + p^2) \cos A$  equals:

- Ans
- 1. 1
  - 2. -1
  - 3. 2
  - 4. 0

Q.19 What is the ratio of the mean proportional of 1.21 and 0.09 with the mean proportional of 0.16 and 0.36?

- Ans
- 1. 11 : 8
  - 2. 13 : 8
  - 3. 13 : 12
  - 4. 11 : 13

Q.20 Replace \* by the smallest digit so that  $723*56*$  is divisible by 6.

Ans  1. 4

2. 3

3. 2

4. 1

Q.21 Consider a triangle PQR, right angled at R, in which  $PQ = 29$  units,  $QR = 21$  units and  $\angle PQR = \theta$ . Find the value of  $\cos^2\theta - \sin^2\theta$ .

Ans  1.  $\frac{21}{841}$

2. 1

3.  $\frac{20}{841}$

4.  $\frac{41}{841}$

Q.22 In a  $\triangle LMN$ ,  $\angle L = 118^\circ$  and  $LM = LN$ . Find  $\angle N$ .

Ans  1.  $42^\circ$

2.  $31^\circ$

3.  $65^\circ$

4.  $62^\circ$

Q.23 A woman spends  $\frac{2}{3}$  of her income. If her income increases by 18% and the expenditure increases by 24%, then the percentage increase in her savings will be:

Ans  1. 6%

2. 3%

3. 5%

4. 4%

Q.24 In  $\triangle ABC$ , two medians AD and BE intersect at G at right angles. If  $AD = 12$  cm and  $BE = 9$  cm, then the length of AB is equal to:

Ans  1. 14 cm

2. 16 cm

3. 12 cm

4. 10 cm

Q.25 Simplify  $4\frac{4}{5} \times \frac{3}{8} + \left(3\frac{1}{2} + \frac{2}{3}\right) \times \frac{4}{5}$

Ans  1.  $\frac{15}{77}$

2.  $\frac{77}{15}$

3.  $\frac{3}{10}$

4.  $\frac{10}{3}$

**Q.1** Select the correctly spelt word to fill in the blank.

All the chefs in the world are famous because of their \_\_\_\_\_ skills.

- Ans**
- 1. kulinary
  - 2. kolinary
  - 3. culinary
  - 4. colinary

**Q.2** Select the option that will improve the underlined part of the given sentence.  
When I saw him, I will ask him to return the book he borrowed.

- Ans**
- 1. shall see him
  - 2. have seen him
  - 3. had seen him
  - 4. see him

**Q.3** Select the most appropriate synonym of the given word.

**Paramount**

- Ans**
- 1. inferior
  - 2. collateral
  - 3. supreme
  - 4. trivial

**Q.4** Select the option that can be used as a one-word substitute for the given group of words.

**Failing to give proper care and attention**

- Ans**
- 1. Lax
  - 2. Cautious
  - 3. Wild
  - 4. Provident

**Q.5** Select the most appropriate ANTONYM of the given word.  
**Brittle**

- Ans**
- 1. Crunchy
  - 2. Resilient
  - 3. Delicate
  - 4. Aloof

**Q.6** Select the option that can be used as a one-word substitute for the underlined group of words.  
Out of those group members, Rohan is the one who opposes others, no matter what they tell him.

- Ans**
- 1. antagonist
  - 2. agonist
  - 3. anatomist
  - 4. protagonist

**Q.7** Select the option that expresses the given sentence in active voice.

**The letter was being typed by the secretary when the phone rang.**

- Ans**
- 1. The secretary will type the letter when the phone rings.
  - 2. The secretary types the letter when the phone rings.
  - 3. The secretary was typing the letter when the phone rang.
  - 4. The secretary is typing the letter when the phone rings.

Q.8 Select the most appropriate meaning of the given idiom.  
A dime a dozen

- Ans
- 1. Variety of amenities
  - 2. Something common and not special
  - 3. Very wealthy
  - 4. A fair trade

Q.9 Select the most appropriate synonym of the given word.  
Expertise

- Ans
- 1. Proficiency
  - 2. Ignorance
  - 3. Clumsiness
  - 4. Lack

Q.10 In the following sentence, four words are underlined out of which one word is misspelt. Identify the INCORRECTLY spelt word.  
I took out a water tumbler(A) for a drink, but found the water in the metal container (B) had frozen so I couldn't quanch (C) my thirst. I ate some biscuits and offered (D) some to Hillary.

- Ans
- 1. C
  - 2. D
  - 3. B
  - 4. A

Q.11 Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct sequence to form a meaningful sentence.

- (P) an open mind
- (Q) seek it with
- (O) for personal growth and development
- (R) knowledge is a powerful tool

- Ans
- 1. PQRO
  - 2. ORPQ
  - 3. QROP
  - 4. ROQP

Q.12 Parts of the following sentence have been given as options. Select the option that contains an error.  
Solutions to the country's interior problems are still a long way away.

- Ans
- 1. problems are still
  - 2. a long way away.
  - 3. Solutions to
  - 4. the country's interior

Q.13 Select the most appropriate ANTONYM of the underlined word in the given sentence.  
Success is not a destination, it's a journey.

- Ans
- 1. Sensation
  - 2. Opulence
  - 3. Victory
  - 4. Failure

Q.14 Select the most appropriate synonym of the bold word in the following sentence.  
His eloquent speech always persuades people to work for their betterment.

- Ans
- 1. Vague
  - 2. Inarticulate
  - 3. Articulate
  - 4. Short



**Q.15** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. A big fancy dress ball was arranged to celebrate their homecoming.
- B. It must have been a terrible shock for a young girl.
- C. They had been married a month, just home from their honeymoon.
- D. Just as the guests were starting to arrive, Charnley locked himself into his bedroom and shot himself.

- Ans**
- 1. BCDA
  - 2. ABCD
  - 3. BCAD
  - 4. DACB

**Q.16** Select the option that expresses the given sentence in passive voice.  
He must deliver pizza.

- Ans**
- 1. Pizza has to be delivered by him.
  - 2. Pizza have to be delivered by him.
  - 3. Pizza must be delivered by him.
  - 4. Pizza can be delivered by him.

**Q.17** Select the most appropriate synonym of the word in brackets to fill in the blank.  
The \_\_\_\_\_ (crux) of his argument was that education should continue throughout life.

- Ans**
- 1. essence
  - 2. proposal
  - 3. etiquette
  - 4. draft

**Q.18** Select the most appropriate option to substitute the underlined segment in the given sentence.  
She believed she had been blamed for the mistakes of others for what happened.

- Ans**
- 1. Made a sceptic
  - 2. Made a scapegoat
  - 3. Made a spinster
  - 4. Made a savage

**Q.19** Select the most appropriate meaning of the given idiom.  
Nobody's fool

- Ans**
- 1. Not easily deceived
  - 2. The wisest person
  - 3. A complete fool
  - 4. All are fools

**Q.20** The following sentence has been split into four segments. Identify the segment that contains an error.  
They secret / decided / to leave / the town.

- Ans**
- 1. They secret
  - 2. decided
  - 3. the town
  - 4. to leave

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Now, we have Mr. X as the President of India. It has come as a surprise (1)\_\_\_\_\_ Scheduled Tribes who are (2)\_\_\_\_\_ the most marginalised groups of the country. The Adivasis of India have been (3)\_\_\_\_\_ socially, economically and culturally. Despite various efforts taken by the Government of India, they are still under (4)\_\_\_\_\_ and suffering. Therefore, the (5)\_\_\_\_\_ a leader from a marginalised community or group does not indicate that now the entire community will be uplifted. However, this kind of move may bring certain changes in the status of the Adivasis.

**SubQuestion No : 21****Q.21 Select the most appropriate option to fill in blank no.1**

- Ans
- 1. off
  - 2. in
  - 3. to
  - 4. at

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Now, we have Mr. X as the President of India. It has come as a surprise (1)\_\_\_\_\_ Scheduled Tribes who are (2)\_\_\_\_\_ the most marginalised groups of the country. The Adivasis of India have been (3)\_\_\_\_\_ socially, economically and culturally. Despite various efforts taken by the Government of India, they are still under (4)\_\_\_\_\_ and suffering. Therefore, the (5)\_\_\_\_\_ a leader from a marginalised community or group does not indicate that now the entire community will be uplifted. However, this kind of move may bring certain changes in the status of the Adivasis.

**SubQuestion No : 22****Q.22 Select the most appropriate option to fill in blank no.2**

- Ans
- 1. through
  - 2. therefore
  - 3. onto
  - 4. among

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Now, we have Mr. X as the President of India. It has come as a surprise (1)\_\_\_\_\_ Scheduled Tribes who are (2)\_\_\_\_\_ the most marginalised groups of the country. The Adivasis of India have been (3)\_\_\_\_\_ socially, economically and culturally. Despite various efforts taken by the Government of India, they are still under (4)\_\_\_\_\_ and suffering. Therefore, the (5)\_\_\_\_\_ a leader from a marginalised community or group does not indicate that now the entire community will be uplifted. However, this kind of move may bring certain changes in the status of the Adivasis.

**SubQuestion No : 23****Q.23 Select the most appropriate option to fill in blank no.3**

- Ans
- 1. censored
  - 2. marginalised
  - 3. elevated
  - 4. uplifted

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Now, we have Mr. X as the President of India. It has come as a surprise (1)\_\_\_\_\_ Scheduled Tribes who are (2)\_\_\_\_\_ the most marginalised groups of the country. The Adivasis of India have been (3)\_\_\_\_\_ socially, economically and culturally. Despite various efforts taken by the Government of India, they are still under (4)\_\_\_\_\_ and suffering. Therefore, the (5)\_\_\_\_\_ a leader from a marginalised community or group does not indicate that now the entire community will be uplifted. However, this kind of move may bring certain changes in the status of the Adivasis.

**SubQuestion No : 24****Q.24 Select the most appropriate option to fill in blank no.4**

- Ans
- 1. abundance
  - 2. forest
  - 3. river
  - 4. poverty

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Now, we have Mr. X as the President of India. It has come as a surprise (1)\_\_\_\_\_ Scheduled Tribes who are (2)\_\_\_\_\_ the most marginalised groups of the country. The Adivasis of India have been (3)\_\_\_\_\_ socially, economically and culturally. Despite various efforts taken by the Government of India, they are still under (4)\_\_\_\_\_ and suffering. Therefore, the (5)\_\_\_\_\_ a leader from a marginalised community or group does not indicate that now the entire community will be uplifted. However, this kind of move may bring certain changes in the status of the Adivasis.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank no.5

- Ans**
- 1. rejection of
  - 2. president of
  - 3. exclusion of
  - 4. elevation of

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	12/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

All pages are diaries.  
Some diaries are books.  
All books are notebooks.

**Conclusions:**

I. No page is a notebook.  
II. All pages are notebooks.  
III. All diaries being notebooks is a possibility.

- Ans**
- 1. Both conclusion I and II follow
  - 2. Only conclusions I and III follow
  - 3. Only conclusion III follows
  - 4. Only conclusion II follows

**Q.2** The position of how many letters will remain unchanged if all the letters in the word BINDER are arranged in English alphabetical order?

- Ans**
- 1. None
  - 2. One
  - 3. Two
  - 4. Three

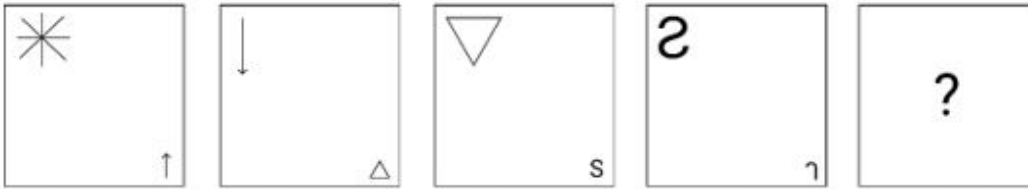
**Q.3** In a certain code language,

'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A × B' means 'A is the wife of B' and  
'A ÷ B' means 'A is the father of B'.

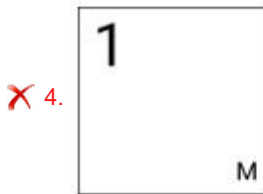
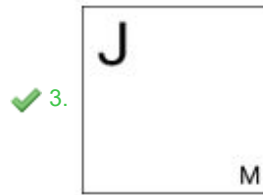
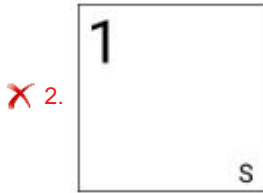
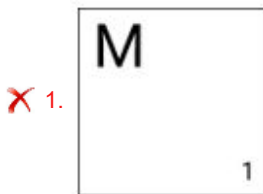
Based on the above, how is 4 related to 2 if '4 + 3 ÷ 2 ÷ 1 - 5'?

- Ans**
- 1. Father's father
  - 2. Father's mother
  - 3. Mother's father
  - 4. Mother's mother

Q.4 Identify the figure given in the options which when put in place of '?' will logically complete the series.



Ans



Q.5 'WISK' is related to 'DRHP' in a certain way based on the English alphabetical order. In the same way, 'LENT' is related to 'OVMG'. To which of the following is 'BANG' related, following the same logic?

- Ans
- ✗ 1. ZYLU
  - ✗ 2. ZYNS
  - ✗ 3. YZNU
  - ✓ 4. YZMT

Q.6 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

18 – 36 – 72 – 107; 15 – 30 – 60 – 95

- Ans
- ✓ 1. 22 – 44 – 88 – 123
  - ✗ 2. 25 – 50 – 100 – 125
  - ✗ 3. 11 – 22 – 66 – 101
  - ✗ 4. 30 – 60 – 90 – 115

Q.7 Select the number from the given options to complete the series.  
25, 30, 40, 55, 75, \_\_\_\_

- Ans
- ✗ 1. 105
  - ✗ 2. 85
  - ✗ 3. 80
  - ✓ 4. 100

Q.8 The position(s) of how many letters will remain unchanged if all the letters in the word 'ENTOMB' are arranged in English alphabetical order?

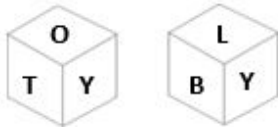
- Ans
- 1. None
  - 2. Two
  - 3. One
  - 4. Three

Q.9 Six words Eat, Cry, Play, Sleep, Run and Bath are written on different faces of a dice. Three positions of this dice are shown in the figure. Find the word on the face opposite to Eat.



- Ans
- 1. Play
  - 2. Cry
  - 3. Sleep
  - 4. Run

Q.10 Two different positions of the same dice with faces T, O, B, L, Y and V are shown below. Select the letter that will be on the face opposite to the one having L.



- Ans
- 1. Y
  - 2. B
  - 3. V
  - 4. O

Q.11 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)  
Virus : Parasite

- Ans
- 1. Fungus : Jasmine
  - 2. Amaltas : Tree
  - 3. Fenugreek : Micro organism
  - 4. Algae : Flower

Q.12 Select the set in which the numbers are related in the same way as are the numbers of the given sets. (213, 157), (185, 129)  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. (171, 123)
  - 2. (189, 141)
  - 3. (164, 108)
  - 4. (192, 152)

Q.13 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1.  $540 - 188 - 128$
  - 2.  $72 - 284 - 266$
  - 3.  $81 - 101 - 92$
  - 4.  $90 - 22 - 12$

Q.14 Which of the following terms will replace the question mark (?) in the given series?  
IMHP, MPJQ, QSLR, UVNS, ?

- Ans
- 1. YYPT
  - 2. YYOT
  - 3. YXPT
  - 4. XYPT

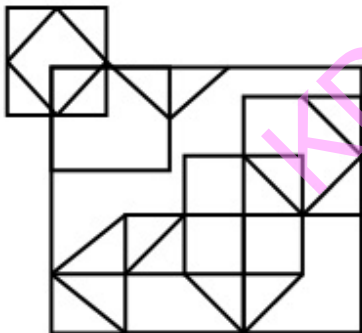
Q.15 In a certain code language, 'FACED' is written as 'GZDDE' and 'VACAY' is written as 'WZDZZ'. How will 'LABOR' be written in that language?

- Ans
- 1. MZCNS
  - 2. MBCPS
  - 3. MBDPS
  - 4. MADMS

Q.16 Which two signs should be interchanged to make the following equation correct?  
 $247 \div 13 + 16 \times 3 - 148 = 119$

- Ans
- 1. + and  $\times$
  - 2. - and +
  - 3. - and  $\times$
  - 4.  $\div$  and  $\times$

Q.17 How many triangles are there in the given figure?



- Ans
- 1. 18
  - 2. 16
  - 3. 21
  - 4. 20

Q.18 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans
- ✓ 1. e q 7 F 2 K
  - ✗ 2. K G 2 F 7 q e
  - ✗ 3. K G 2 F 7 p e
  - ✗ 4. K G 2 F 7 p e

Q.19 Select the figure from among the given options that can replace the question mark (?) in the following series.



- Ans
- ✓ 1.
  - ✗ 2.
  - ✗ 3.
  - ✗ 4.

Q.20 In a certain code language, 'FIVE' is written as '12184410' and FOUR is written as '12304236'. How will 'THREE' be written in that language?

- Ans
- ✗ 1. 4016361110
  - ✗ 2. 4016361310
  - ✗ 3. 4016361212
  - ✓ 4. 4016361010



Q.21 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- ✓ 1. @ 4 7 w R h
  - ✗ 2. @ 4 7 w R h
  - ✗ 3. @ 4 7 w R h
  - ✗ 4. @ 4 7 w R h

Q.22 In the following series, only one letter-cluster is incorrect. Select the incorrect letter-cluster.

YCG IMQ SVZ CGK MQU

- Ans
- ✓ 1. SVZ
  - ✗ 2. MQU
  - ✗ 3. CGK
  - ✗ 4. IMQ

Q.23 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- ✓ 1. KJE
  - ✗ 2. JHD
  - ✗ 3. FDZ
  - ✗ 4. AYU

Q.24 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$342 \times 18 + 79 - 45 \div 3 = ?$$

- Ans
- ✗ 1. 65
  - ✓ 2. 75
  - ✗ 3. 85
  - ✗ 4. 55

Q.25  $\left[\frac{24}{7}\right]$  is related to  $\left[\frac{12}{7}\right]$  following a certain logic. Following the same logic,  $\left[\frac{11}{15}\right]$  is related to  $\left[\frac{11}{30}\right]$ . To which of the following is  $\left[\frac{9}{13}\right]$  related, following the same logic?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- ✗ 1.  $\left[\frac{15}{26}\right]$
  - ✗ 2.  $\left[\frac{9}{39}\right]$
  - ✓ 3.  $\left[\frac{9}{26}\right]$
  - ✗ 4.  $\left[\frac{10}{27}\right]$

**Q.1 Who among the following is the world renowned exponent of the bamboo flute?**

- Ans**
- 1. MS Subbulakshmi
  - 2. Ravi Shankar
  - 3. Hariprasad Chaurasia
  - 4. Bismillah Khan

**Q.2 What is net investment?**

- Ans**
- 1. Sum of all the investments in a country
  - 2. Gross investment + depreciation
  - 3. Gross capital investment - indirect taxes
  - 4. Gross investment - depreciation

**Q.3 India won the ICC Men Cricket World Cup for the first time in which of the following years?**

- Ans**
- 1. 1996
  - 2. 1992
  - 3. 1987
  - 4. 1983

**Q.4 Match the following institutes with their respective founders of British India.**

**Institutes**

- a. Asiatic Society of Bengal
- b. Sanskrit College of Benaras
- c. Fort William College
- d. Calcutta Madrasa

**Their respective founders**

- i. Warren Hastings
- ii. Lord Wellesley
- iii. Jonathan Duncan
- iv. Sir William Jones

- Ans**
- 1. a-ii, b-i, c-iv, d-iii
  - 2. a-iii, b-iv, c-i, d-ii
  - 3. a-iv, b-iii, c-ii, d-i
  - 4. a-i, b-ii, c-iii, d-iv

**Q.5 Kathakali, one of the classical dances of India, is predominantly performed in which of the following states of India?**

- Ans**
- 1. Assam
  - 2. Manipur
  - 3. Uttar Pradesh
  - 4. Kerala

**Q.6 Identify the oldest iron and steel company of India from the following options.**

- Ans**
- 1. Tata Iron & Steel Company(TISCO)
  - 2. Visvesvaraiya Iron & Steel Works
  - 3. Indian Iron & Steel Company (IISCO)
  - 4. Mysore Iron & Steel Works

**Q.7 The magnificent Kailasa temple at Ellora was built during the reign of which Rashtrakuta king?**

- Ans**
- 1. Krishna I
  - 2. Indra III
  - 3. Govinda III
  - 4. Amoghavarsha

**Q.8** In which state/UT is the Hemis festival celebrated?

- Ans**
- 1. Punjab
  - 2. Sikkim
  - 3. Lakshadweep
  - 4. Ladakh

**Q.9** Which of the following is the largest artificial lake of Asia?

- Ans**
- 1. Naini Lake
  - 2. Bhopal Lake
  - 3. Dal Lake
  - 4. Chilika Lake

**Q.10** In 2002, Zakir Hussain became the youngest percussionist to be honoured with which award?

- Ans**
- 1. Sangeet Natak Akademi Award
  - 2. Grammy Award
  - 3. Padma Bhushan
  - 4. National Heritage Fellowship

**Q.11** Microbes like Rhizobium, Nitrosomonas and Nitrobacter are used for:

- Ans**
- 1. nitrogen cycling
  - 2. carbon cycling
  - 3. water cycling
  - 4. sulphur cycling

**Q.12** With reference to Sepoy Mutiny of 1857, on which of the following dates did the soldiers at Meerut start their journey to Delhi?

- Ans**
- 1. 10 May
  - 2. 19 April
  - 3. 2 June
  - 4. 29 March

**Q.13** Who among the following was selected as the Sherpa for India's G20 hosted in 2022-23?

- Ans**
- 1. Piyush Goyal
  - 2. Ashwini Vaishnav
  - 3. Shaktikanta Das
  - 4. Amitabh Kant

**Q.14** Purvanchal Himalayas does NOT comprise of:

- Ans**
- 1. Naga hills
  - 2. Pir Panjal range
  - 3. Manipur hills
  - 4. Mizo hills

**Q.15** In which year did India make its Olympic debut in hockey?

- Ans**
- 1. 1936
  - 2. 1932
  - 3. 1924
  - 4. 1928

**Q.16** A student, on his school assignment, is taking a session on how to make compost at home for using it at a park. Which fundamental duty is he performing?

- Ans**
- 1. To strive towards excellence in all spheres of individual and collective activity
  - 2. To safeguard public property and to abjure violence
  - 3. To develop the scientific temper, humanism and the spirit of inquiry
  - 4. To protect and improve the natural environment

**Q.17** In August 2022, the Ministry of Social Justice and Empowerment launched the \_\_\_\_\_ scheme, with an aim to provide comprehensive rehabilitation services to people engaged in begging in 75 municipalities.

- Ans**
- 1. TWINKLE-75
  - 2. BEAM-75
  - 3. SMILE-75
  - 4. RISE-75

**Q.18** Which is the National Mission for Financial Inclusion to ensure access to financial services, namely, a basic savings and deposits accounts, remittance, credit, insurance, pension in an affordable manner?

- Ans**
- 1. Deendayal Antyodaya Yojana
  - 2. Deen Dayal Upadhyaya Grameen Kaushalya Yojana
  - 3. Swarnjayanti Gram Swarozgar Yojana
  - 4. Pradhan Mantri Jan Dhan Yojana

**Q.19** Which of the following plays was NOT written by Harshavardhana?

- Ans**
- 1. Vikramorvasiyam
  - 2. Ratnavali
  - 3. Nagananda
  - 4. Priyadarshika

**Q.20** The organisms that do not have a defined nucleus or organelles are classified in to \_\_\_\_\_ Kingdom.

- Ans**
- 1. Fungi
  - 2. Protista
  - 3. Monera
  - 4. Plantae

**Q.21** Which Article of the Constitution of India provides that 'there shall be a Vice President of India'?

- Ans**
- 1. Article 61
  - 2. Article 63
  - 3. Article 65
  - 4. Article 62

**Q.22** A javelin thrown by an athlete is in \_\_\_\_\_ motion.

- Ans**
- 1. oscillatory
  - 2. periodic
  - 3. rectilinear
  - 4. curvilinear

**Q.23** The green revolution technology resulted in an increase in production of cereal production from 72.4 million tons in 1965-66 to \_\_\_\_\_ million tons in 1978-79.

- Ans**
- 1. 150.8
  - 2. 165.9
  - 3. 131.9
  - 4. 141.2

Q.24 Calculate the oxidation number of 'S' in  $\text{H}_2\text{S}_2\text{O}_7$ .

- Ans
- 1. 3
  - 2. 7
  - 3. 6
  - 4. 2

Q.25 Which of the following is NOT an amendment made to the Airport Economic Regulatory Authority (AERA) Amendment Act, 2021?

- Ans
- 1. The government can call any airport a major airport just by notification.
  - 2. The government will club together profit-making and loss-making airports.
  - 3. The government can offer airports as a package in PPP mode to the prospective bidders.
  - 4. A major airport is one which has an annual traffic of minimum 35 lakh passengers.

Section : Quantitative Aptitude

Q.1 Which digits should come in place \* and \$, respectively, if the number 72864\*\$ is divisible by both 8 and 5?

- Ans
- 1. 4 and 0
  - 2. 2 and 0
  - 3. 2 and 5
  - 4. 4 and 5

Q.2 The given table shows the number of soaps sold by four different companies in 4 different months.

Month \ Company	May	June	July	August
P	1924	1780	1820	1490
Q	1540	1245	1648	2450
R	2035	1485	1350	1650
S	1736	1855	1470	1180

The total number of soaps sold by companies Q and S together in May, is what percentage more than the number of soaps sold by company P in July?

- Ans
- 1. 75%
  - 2. 90%
  - 3. 65%
  - 4. 80%

Q.3 In a triangle PQR, S is a point on the side QR such that  $\text{PS} \perp \text{QR}$ , then which of the following options is true?

- Ans
- 1.  $\text{PS}^2 + \text{PR}^2 = \text{PQ}^2 + \text{QR}^2$
  - 2.  $\text{PR}^2 + \text{QS}^2 = \text{PQ}^2 + \text{SR}^2$
  - 3.  $\text{PQ}^2 + \text{PR}^2 = \text{QS}^2 + \text{SR}^2$
  - 4.  $\text{PS}^2 + \text{QS}^2 = \text{PQ}^2 + \text{PR}^2$

Q.4 Simplify  
 $15.5 - [3 - \{7 - (5 - (14.5 - 13.5))\}]$ .

- Ans
- 1. 15.5
  - 2. 13.5
  - 3. 12.5
  - 4. 14.5

Q.5 The incomes of P, Q and R are in the ratio 10 : 12 : 9 and their expenditures are in the ratio 12 : 15 : 8. If Q saves 25% of his income, then what is the ratio of the savings of P, Q and R?

- Ans
- 1. 15 : 14 : 21
  - 2. 14 : 15 : 21
  - 3. 21 : 15 : 14
  - 4. 21 : 14 : 15

Q.6 The classification of 100 students based on the marks obtained by them in English and Mathematics in an examination is given in the table below. Study the table and answer the question that follows.

MARKS OUT OF 50					
SUBJECT	40 and above	30 and above	20 and above	10 and above	0 and above
ENGLISH	10	31	80	92	100
MATHEMATICS	3	23	65	81	100
AGGREGATE	7	27	73	87	100

If at least 40% marks in Mathematics are required for pursuing higher studies in Mathematics, how many students will be eligible to pursue higher studies in Mathematics?

- Ans
- 1. 55
  - 2. 65
  - 3. 70
  - 4. 50

Q.7 In triangles ABC and DEF,  $AB = FD$  and  $\angle A = \angle D$ . The two triangles are congruent by SAS criterion if:

- Ans
- 1.  $BC = DE$
  - 2.  $AC = EF$
  - 3.  $BC = EF$
  - 4.  $AC = DE$

Q.8 Two pipes, A and B, can fill a tank in 10 minutes and 20 minutes, respectively. The pipe C can empty the tank in 30 minutes. All the three pipes are opened at a time in the beginning. However, pipe C is closed 2 minutes before the tank is filled. In what time, will the tank be full (in minutes)?

- Ans
- 1. 12
  - 2. 10
  - 3. 8
  - 4. 6

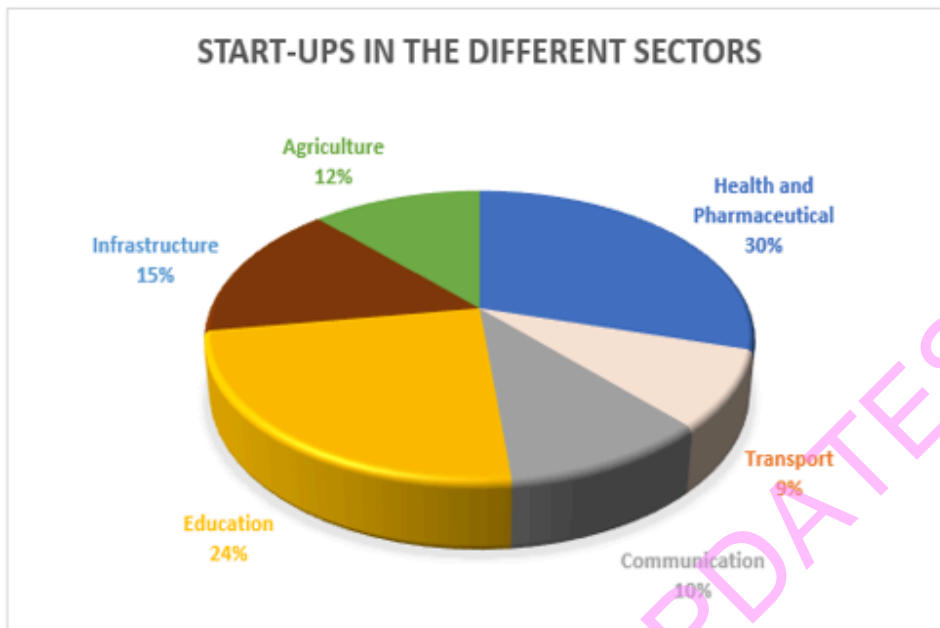
Q.9 A payment of ₹120 is made with ₹10, ₹5 and ₹2 coins. A total of 25 coins are used. Which of the following is the number of ₹10 coins used in the payment?

- Ans
- 1. 6
  - 2. 4
  - 3. 10
  - 4. 8

Q.10 If  $28.9 : x :: x : 36.1$ , and  $x > 0$ , then find the value of  $x$ .

- Ans
- 1. 38.3
  - 2. 32.3
  - 3. 30.4
  - 4. 35

Q.11 Study the given pie chart carefully and answer the question that follows.  
The given pie chart shows the number of successful start-ups in different sectors in a particular year.



If the total number of successful start-ups is 2910, then find the number of start-ups in the education and agriculture sectors. (Neglect the decimal part.)

- Ans
- 1. 698
  - 2. 1048
  - 3. 1074
  - 4. 1047

Q.12 The height of a cylinder is 20 cm. The lateral surface area is  $1760 \text{ cm}^2$ . Its volume is:

- Ans
- 1.  $12032 \text{ cm}^3$
  - 2.  $12302 \text{ cm}^3$
  - 3.  $12203 \text{ cm}^3$
  - 4.  $12320 \text{ cm}^3$

Q.13 Raj divides ₹1,200 in the ratio 2 : 1 : 3 among three of his friends. The amount equal to the sum of three times the largest share and two times the smallest share is:

- Ans
- 1. ₹2,400
  - 2. ₹1,800
  - 3. ₹2,200
  - 4. ₹2,000

Q.14 A shopkeeper marked an article at ₹5,000. The shopkeeper allows successive discounts of 20%,15% and 10%. The selling price of the article is:

- Ans
- 1. ₹2,750
  - 2. ₹3,000
  - 3. ₹2,800
  - 4. ₹3,060

Q.15 The average of 12 numbers is 48. The average of the first 5 numbers is 45 and the average of next 4 numbers is 52. If the 10<sup>th</sup> number is 10 less than the 11<sup>th</sup> number and is 5 more than the 12<sup>th</sup> number, then the average of the 11<sup>th</sup> and 12<sup>th</sup> numbers is:

- Ans
- 1. 50.5
  - 2. 46.5
  - 3. 47.5
  - 4. 48.5

Q.16 Find the value of the following expression.

$$\sqrt{\frac{1+\sin\theta}{1-\sin\theta}}$$

- Ans
- 1.  $\sec\theta + \tan\theta$
  - 2.  $\operatorname{cosec}\theta + \tan\theta$
  - 3.  $\operatorname{cosec}\theta + \cot\theta$
  - 4.  $\sec\theta + \cot\theta$

Q.17 The value of  $\left(\frac{\sin\theta - 2\sin^3\theta}{2\cos^3\theta - \cos\theta}\right)^3 \frac{1}{\tan\theta} - \sec^2\theta$  is:

- Ans
- 1. 2
  - 2. 1
  - 3. 0
  - 4. -1

Q.18 Let  $t = \frac{2}{5}$ , then the value of the expression  $t^3 + \left(\frac{3}{5}\right)^3 + \frac{9}{5}t$  is:

- Ans
- 1.  $\frac{1}{5}$
  - 2. 1
  - 3. 2
  - 4.  $\frac{1}{2}$

Q.19 M and N walk along a circular track. They start at 5:00 a.m. from the same point in the opposite directions. M and N walk at a speed of 5 rounds per hour and 2 rounds per hour, respectively. How many times will they cross each other before 6.30 a.m. on the same day?

- Ans
- 1. 10
  - 2. 3
  - 3. 5
  - 4. 7



Q.20 Two circles  $C_1$  and  $C_2$  touch each other externally. The radius of  $C_1 = 16$  cm and the radius of  $C_2 = 8$  cm. Find the length (in cm) of their common tangent.

- Ans
- 1.  $8\sqrt{3}$
  - 2.  $16\sqrt{3}$
  - 3.  $8\sqrt{2}$
  - 4.  $16\sqrt{2}$

Q.21 If  $x + \frac{1}{x} = 15$ , then the value of  $\frac{7x^2 - 9x + 7}{x^2 - x + 1}$  is:

- Ans
- 1.  $-\frac{48}{7}$
  - 2.  $-\frac{22}{7}$
  - 3.  $\frac{48}{7}$
  - 4.  $\frac{22}{7}$

Q.22 Study the given table and answer the question that follows.  
The given table shows the production of different types of refrigerators in a company.

Years	Types of Refrigerators		
	A	B	C
2011	2018	1800	1932
2012	2040	1890	1800
2013	2035	1910	1890
2014	2020	1940	1978
2015	1997	1960	1900

In which of the given year(s) was the production of B type refrigerator closest to its average production over the given years?

- Ans
- 1. Both 2012 and 2013
  - 2. Both 2013 and 2015
  - 3. 2014
  - 4. Only 2012

Q.23 The measures of the three angles of a triangle are in the ratio 17 : 13 : 15. Find the positive difference between the greatest and the smallest of these three angles.

- Ans
- 1.  $16^\circ$
  - 2.  $24^\circ$
  - 3.  $20^\circ$
  - 4.  $12^\circ$

Q.24 If  $2\operatorname{cosec}^2\theta + 3\cot^2\theta = 17$ , then the value of ' $\theta$ ' when  $0^\circ \leq \theta \leq 90^\circ$  is:

- Ans
- 1.  $45^\circ$
  - 2.  $90^\circ$
  - 3.  $30^\circ$
  - 4.  $75^\circ$

**Q.25** A certain sum of money becomes seven times itself when invested at a certain rate of simple interest, in 14 years. How much time (in years, rounded off to 2 decimal places) will it take to become 18 times itself at the same rate?

- Ans**
- 1. 27.33
  - 2. 39.67
  - 3. 42.78
  - 4. 35.5

Section : English Comprehension

**Q.1** Select the option that can be used as a one-word-substitute for the given group of words.

**A false idea or belief**

- Ans**
- 1. Reticence
  - 2. Atrophy
  - 3. Fallacy
  - 4. Entropy

**Q.2** Identify the most appropriate ANTONYM of the given word.  
Secure

- Ans**
- 1. Succeed
  - 2. Save
  - 3. Attack
  - 4. Trundle

**Q.3** Select the most appropriate option to substitute the underlined segment in the given sentence.  
Gourav was no good than a foolish person.

- Ans**
- 1. no better
  - 2. not good
  - 3. no best
  - 4. not best

**Q.4** Select the option that corrects the error in the given sentence.  
He ran quick to catch the bus.

- Ans**
- 1. quiet
  - 2. rapid
  - 3. insipid
  - 4. quickly

**Q.5** Select the most appropriate synonym of the given word.  
Acquiesce

- Ans**
- 1. Desist
  - 2. Cease
  - 3. Thwart
  - 4. Concur

**Q.6** Select the option that can be used as a one-word substitute for the given group of words.

**That which cannot be conquered**

- Ans**
- 1. Invisible
  - 2. Indelible
  - 3. Ineffable
  - 4. Invincible

Q.7 Select the most appropriate synonym for the underlined word in the given sentence.  
His ambition in life is to become a happy and satisfied man.

- Ans
- 1. Apathy
  - 2. Satisfaction
  - 3. Eagerness
  - 4. Amend

Q.8 Read the sentence carefully and select the most suitable idiom to fill in the blank.

The renowned publisher decided to withdraw a book from the market. No one was interested in the book as the arguments presented were \_\_\_\_\_.

- Ans
- 1. high and mighty
  - 2. out of the woods
  - 3. beside the mark
  - 4. under the rose

Q.9 Select the most appropriate ANTONYM of the given word.  
Receive

- Ans
- 1. Admit
  - 2. Exile
  - 3. Reward
  - 4. Fund

Q.10 Select the option that expresses the following sentence in passive voice.  
Sonam does not like bananas.

- Ans
- 1. Banana is not liked by Sonam.
  - 2. Bananas have not been liked by Sonam.
  - 3. Bananas are not liked by Sonam.
  - 4. Bananas had not been liked by Sonam.

Q.11 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. The genuine beliefs, though not unconsciously acquired by most children; and even if they depart from these beliefs in later life
- B. Something of them remains deeply implanted, ready to emerge in a time of stress or crisis
- C. The importance of education in forming character and opinion is very great and well recognised by all
- D. Education is, as a rule, the strongest force on the side of what exists and again fundamental change

- Ans
- 1. DCAB
  - 2. DABC
  - 3. CBAD
  - 4. CABD

Q.12 Select the option that can be used as a one-word substitute for the underlined group of words.

In Indian mythology, most of the Asuras wish to be never able to die.

- Ans
- 1. Invincible
  - 2. Impervious
  - 3. Invisible
  - 4. Immortal

Q.13 Select the option that expresses the given sentence in passive voice  
Someone has taken my secret diary.

- Ans
- 1. My secret diary had been taken by someone.
  - 2. My secret diary has to be taken by someone.
  - 3. My secret diary has been taken by someone.
  - 4. My secret diary will have been taken by someone.

Q.14 Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.

During Covid times, many organisations made \_\_\_\_\_ (sentimental) appeals to raise funds for migrant workers.

- Ans
- 1. mawkish
  - 2. sincere
  - 3. cynical
  - 4. practical

Q.15 Select the most appropriate meaning of the underlined word in the given sentence.  
He is an atheist, although he respects everyone's belief.

- Ans
- 1. One who believes in God
  - 2. One who believes in nature
  - 3. One who is extremist
  - 4. One who does not believe in God

Q.16 Select the most appropriate meaning of the underlined idiom in the following sentence.  
In my new office, all employees were different, so I felt like a fish out of water.

- Ans
- 1. Uncomfortable
  - 2. Homeless
  - 3. Frustrated
  - 4. Disappointed

Q.17 Select the INCORRECTLY spelt word.

- Ans
- 1. Embarrass
  - 2. Occurrence
  - 3. Exhilerate
  - 4. Accommodate

Q.18 The following sentence has been divided into four segments. Identify the segment that contains an error.  
Mrs. Sreelakshmi's / musical intelligence / is superior than / Mrs. Suma's.

- Ans
- 1. Mrs. Suma's.
  - 2. musical intelligence
  - 3. is superior than
  - 4. Mrs. Sreelakshmi's

Q.19 Select the option that will improve the underlined part of the given sentence.  
If I was the queen, I would give a handsome sum towards education.

- Ans
- 1. will be the queen
  - 2. were the queen
  - 3. have been the queen
  - 4. would be the queen

Q.20 Select the INCORRECTLY spelt word.

- Ans
- 1. Exceed
  - 2. Proceed
  - 3. Succeed
  - 4. Preceed

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The beginning of the story is (1)\_\_\_\_\_ in its presentation but (2)\_\_\_\_\_ the style eases out and becomes haunting in its simplicity. The author brings out the human elements in his story. This common element of sympathy and sacrifice is given a new (3)\_\_\_\_\_ by the old artist who shows by his last desperate act that one can be a hero for one day if only one cares (4)\_\_\_\_\_. O Henry's treatment of his material is balanced and controlled, a fine (5)\_\_\_\_\_ of humour and pathos.

**SubQuestion No : 21****Q.21 Select the most appropriate option to fill in blank number 1.**

- Ans
- 1. prone
  - 2. delectable
  - 3. quaint
  - 4. habitual

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The beginning of the story is (1)\_\_\_\_\_ in its presentation but (2)\_\_\_\_\_ the style eases out and becomes haunting in its simplicity. The author brings out the human elements in his story. This common element of sympathy and sacrifice is given a new (3)\_\_\_\_\_ by the old artist who shows by his last desperate act that one can be a hero for one day if only one cares (4)\_\_\_\_\_. O Henry's treatment of his material is balanced and controlled, a fine (5)\_\_\_\_\_ of humour and pathos.

**SubQuestion No : 22****Q.22 Select the most appropriate option to fill in blank number 2.**

- Ans
- 1. hardly
  - 2. recently
  - 3. initially
  - 4. gradually

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The beginning of the story is (1)\_\_\_\_\_ in its presentation but (2)\_\_\_\_\_ the style eases out and becomes haunting in its simplicity. The author brings out the human elements in his story. This common element of sympathy and sacrifice is given a new (3)\_\_\_\_\_ by the old artist who shows by his last desperate act that one can be a hero for one day if only one cares (4)\_\_\_\_\_. O Henry's treatment of his material is balanced and controlled, a fine (5)\_\_\_\_\_ of humour and pathos.

**SubQuestion No : 23****Q.23 Select the most appropriate option to fill in blank number 3.**

- Ans
- 1. supervision
  - 2. condition
  - 3. dimension
  - 4. infection

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The beginning of the story is (1)\_\_\_\_\_ in its presentation but (2)\_\_\_\_\_ the style eases out and becomes haunting in its simplicity. The author brings out the human elements in his story. This common element of sympathy and sacrifice is given a new (3)\_\_\_\_\_ by the old artist who shows by his last desperate act that one can be a hero for one day if only one cares (4)\_\_\_\_\_. O Henry's treatment of his material is balanced and controlled, a fine (5)\_\_\_\_\_ of humour and pathos.

**SubQuestion No : 24****Q.24 Select the most appropriate option to fill in blank number 4.**

- Ans
- 1. through
  - 2. though
  - 3. tough
  - 4. enough

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The beginning of the story is (1)\_\_\_\_\_ in its presentation but (2)\_\_\_\_\_ the style eases out and becomes haunting in its simplicity. The author brings out the human elements in his story. This common element of sympathy and sacrifice is given a new (3)\_\_\_\_\_ by the old artist who shows by his last desperate act that one can be a hero for one day if only one cares (4)\_\_\_\_\_. O Henry's treatment of his material is balanced and controlled, a fine (5)\_\_\_\_\_ of humour and pathos.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. legend
  - 2. ascend
  - 3. blend
  - 4. amend

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	12/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

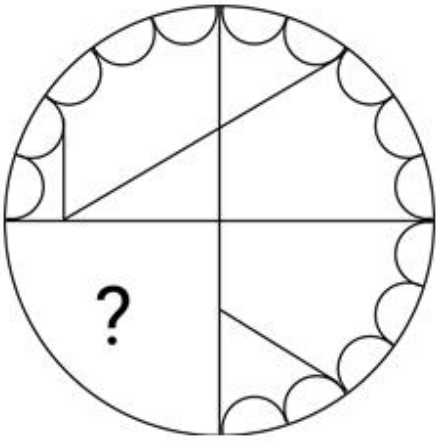
### Section : General Intelligence and Reasoning

**Q.1** Three of the following numbers are alike in a certain way and one is different. Pick the odd one out.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1.  $12 - 7 - 209$
  - 2.  $19 - 11 - 330$
  - 3.  $23 - 8 - 343$
  - 4.  $15 - 9 - 264$

KD JOB UPDATES

Q.2 Select the option figure that will replace the question mark (?) in the figure given below and complete the pattern.

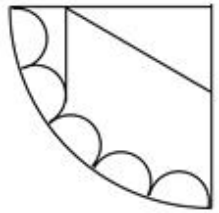


Ans

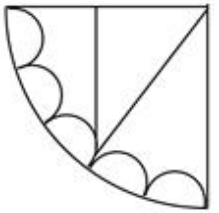
✗ 1.



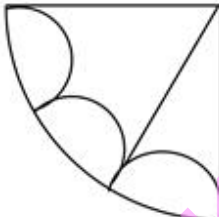
✓ 2.



✗ 3.



✗ 4.



Q.3 In a certain code language, 'talk to me' is coded as 'aq yt bl' and 'do not talk' is coded as 'yt me wc'. What is the code for 'talk' in that language?

- Ans
- ✓ 1. yt
  - ✗ 2. wc
  - ✗ 3. bl
  - ✗ 4. aq

Q.4 'NGRP' is related to 'JCNL' in a certain way based on the English alphabetical order. In the same way, 'FKLT' is related to 'BGHP'. To which of the following is 'SQUO' related, following the same logic?

- Ans
- ✗ 1. ONQL
  - ✓ 2. OMQK
  - ✗ 3. PNRL
  - ✗ 4. PMRK



Q.5 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

E \_ GHEI \_ GELK \_ \_ OME

- Ans
- 1. IGFE
  - 2. IFGE
  - 3. FIFE
  - 4. FGEI

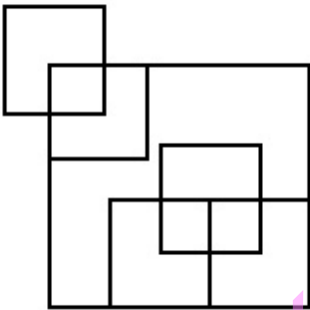
Q.6 In a certain code language,  
A + B means 'A is the son of B',  
A - B means 'A is the wife of B',  
A × B means 'A is the brother of B' and  
A ÷ B means 'A is the daughter of B'.  
Based on the above, how is P related to R if 'P × S ÷ M - T + R'?

- Ans
- 1. Brother
  - 2. Son's son
  - 3. Father's mother
  - 4. Daughter

Q.7 346 is related to 245 by certain logic. Following the same logic, 580 is related to 479. To which of the following is 613 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 720
  - 2. 460
  - 3. 512
  - 4. 630

Q.8 How many squares are there in the given figure?

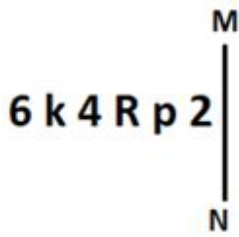


- Ans
- 1. 8
  - 2. 9
  - 3. 10
  - 4. 7

Q.9 Which of the following terms will replace the question mark (?) in the given series?  
HPL, KLQ, NHV, QDA, TZF, ?

- Ans
- 1. WVK
  - 2. XVK
  - 3. WDK
  - 4. XWK

Q.10 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. p 2 R 4 k 6
  - 2. 2 q R 4 k 6
  - 3. 2 q R 4 k 6
  - 4. 2 q R 4 k 6

Q.11 Select the set in which the numbers are related in the same way as are the numbers of the following set.  
(11, 16.5, 22)

(14.5, 20, 25.5)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. (14, 18.5, 23.5)
  - 2. (21.5, 25, 31.5)
  - 3. (18, 23.5, 29)
  - 4. (24.5, 30, 36.5)

Q.12 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.  
(The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)

Duleep Trophy : Cricket

- Ans
- 1. Burdwan Trophy : Polo
  - 2. Agha Khan Cup : Hockey
  - 3. Dhyan Chand Trophy : Badminton
  - 4. Durand Cup : Cricket

Q.13 In a certain code language, 'BOOK' is written as 'ZNNI' and 'SHOP' is written as 'QFNN'. How will 'NOTES' be written in that language?

- Ans
- 1. LRDQN
  - 2. LNRDQ
  - 3. LDNQR
  - 4. QDRNL

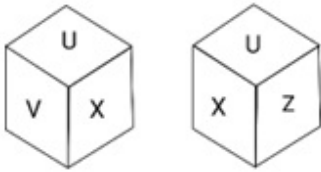
Q.14 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

10 – 12 – 8 – 15; 12 – 14 – 10 – 19

- Ans
- 1. 11 – 13 – 9 – 17
  - 2. 8 – 6 – 10 – 18
  - 3. 6 – 8 – 12 – 16
  - 4. 15 – 13 – 9 – 19

Q.15 Six letters U, V, W, X, Y and Z are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the letter on the face opposite to V.



- Ans
- 1. X
  - 2. Y
  - 3. Z
  - 4. W

Q.16 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

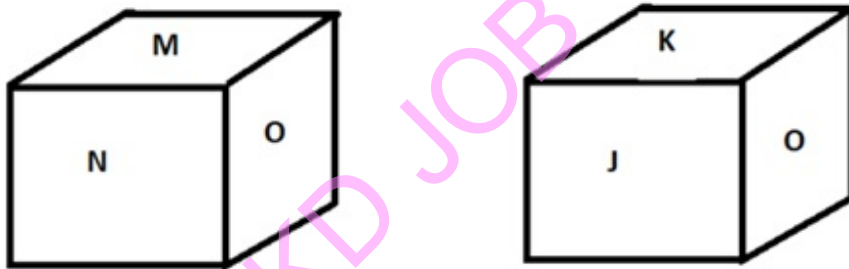
$$16 \div 4 + 8 \times 8 - 4 = ?$$

- Ans
- 1. 11
  - 2. 67
  - 3. 42
  - 4. 36

Q.17 Which of the following operations should be interchanged to make the following equation correct?  
 $12 + 12 - 4 \times 4 \div 2 = 22$

- Ans
- 1. + and ÷
  - 2. ÷ and -
  - 3. - and +
  - 4. × and -

Q.18 Six letters J, K, L, M, N and O are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to J.



- Ans
- 1. M
  - 2. O
  - 3. L
  - 4. N

Q.19 Which figure should replace the question mark (?) if the following series were to be continued?

B	OOO	OO	XXXX	
OOO	XX	XXXX	BB	?
XX	B	BB	OO	

Ans

✓ 1. 

XXX
BBBB
OOO

✗ 2. 

XXX
BBB
OOO

✗ 3. 

XXXX
BBB
OO

✗ 4. 

XXXXX
BBBB
OOO

Q.20 Which of the following numbers will replace the question marks (?) in the given series?  
16, 36, 64, ?, ?, 196, 256, 324

- Ans
- ✗ 1. 81, 121
  - ✗ 2. 100, 121
  - ✓ 3. 100, 144
  - ✗ 4. 81, 100

Q.21 Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- All cards are postcards.
- Some postcards are books.
- All books are novels.

Conclusions:

- I. Some postcards are novels.
- II. No card is a book.
- III. All cards are novels.

- Ans
- ✗ 1. Only II and III conclusion follow
  - ✗ 2. Only conclusion III follows
  - ✗ 3. Only I and II conclusion follow
  - ✓ 4. Only conclusion I follows

**Q.22** In a certain code language, 'can we play' is coded as 'ae tc nx' and 'play in school' is coded as 'tc rm ef'. How is 'play' coded in that language?

- Ans**
- 1. rm
  - 2. ef
  - 3. ae
  - 4. tc

**Q.23** Each vowel in the word 'STAMINA' is changed to the preceding letter in the English alphabetical order and each consonant is changed to the following letter in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is the third from the right and the fourth from the left in the group of letters thus formed?

- Ans**
- 1. Five
  - 2. Seven
  - 3. Four
  - 4. Six

**Q.24** Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- 1. MPT
  - 2. ACG
  - 3. DGK
  - 4. HKO

KD JOB UPDATES

Q.25 Identify the figure from the given options, which when put in place of the question mark (?), will logically complete the series.

↑	+	D	△	\$	+	↑	△	
\$		↑		D		\$		?
D	△	\$	+	↑	△	D	+	

Ans

✓ 1.

D	+
↑	
\$	△

✗ 2.

D	\$
↑	
+	△

✗ 3.

\$	△
D	
+	↑

✗ 4.

\$	△
D	
↑	+

Section : General Awareness

Q.1 Which of the following is an example of public sector industry in India?

Ans ✓ 1. Bharat Heavy Electricals Limited

✗ 2. Bajaj Auto

✗ 3. Dabur

✗ 4. Tata Iron Steel Company

Q.2 In which of the following years was Pro Kabaddi League established in India?

Ans ✗ 1. 2015

✗ 2. 2016

✗ 3. 2013

✓ 4. 2014

Q.3 The Vedangas are Hindu auxiliary disciplines that originated in ancient times and are linked to the study of the Vedas. These are \_\_\_\_\_ in number.

Ans ✗ 1. five

✗ 2. seven

✗ 3. four

✓ 4. six

**Q.4** What was the actual growth rate of the first five-year plan?

- Ans**
- 1. 4.2%
  - 2. 2.6%
  - 3. 3.6%
  - 4. 2.1%

**Q.5** What are the five Fs of indirect transmission?

- Ans**
- 1. Flies, fingers, fomites, food and fluid
  - 2. Fruit, fingers, flu, food and fluid
  - 3. Flies, fingers, friends, food and fruit
  - 4. Flies, fingers, fomites, food and fruit

**Q.6** Match the points under Column A with those under Column B.

Column A

Column B

i. Annelida

a. Tapeworm

ii. Arthropoda

b. Sea star

iii. Echinodermata

c. Ant

iv. Platyhelminthes

d. Earthworm

- Ans**
- 1. i-d, ii-c, iii-b, iv-a
  - 2. i-b, ii-a, iii-c, iv-d
  - 3. i-a, ii-c, iii-b, iv-d
  - 4. i-a, ii-b, iii-c, iv-d

**Q.7** The Election Laws Amendment Bill passed in the Parliament recently seeks to implement certain electoral reforms. One of them is the eligibility date. Till now, only one date – 1 January was considered for deciding eligibility with respect to age. What reform does the Bill seek in this regard?

- Ans**
- 1. Introducing two dates – 1 January and 1 June
  - 2. Eliminating the idea of eligibility date – enrolment throughout the year
  - 3. Introducing four dates – 1 January, 1 April, 1 July, 1 October
  - 4. Introducing three dates – 1 January, 1 May, 1 September

**Q.8** In July 2020, which state initiated the 'Ashirwad Scheme' to extend financial support for a daughter's marriage who belongs to a family earning a lower income?

- Ans**
- 1. Uttar Pradesh
  - 2. Bihar
  - 3. Punjab
  - 4. Rajasthan

**Q.9** In the state legislative assembly, the Money bill can be introduced with the prior permission of \_\_\_\_\_.

- Ans**
- 1. Governor
  - 2. Auditor General
  - 3. Finance Minister
  - 4. CAG

**Q.10** According to Census of India 2011, what is the gap between male and female literacy rate in India?

- Ans**
- 1. 21.59%
  - 2. 18.30%
  - 3. 24.84%
  - 4. 16.68%

**Q.11** In which year was the Digital India mission launched?

- Ans**
- 1. 2014
  - 2. 2016
  - 3. 2015
  - 4. 2017

**Q.12** Who among the following players is related to table tennis?

- Ans**
- 1. Manish Narwal
  - 2. Manika Batra
  - 3. K Srikanth
  - 4. Pankaj Advani

**Q.13** Which of the following gases emits red light when electricity is passed through it?

- Ans**
- 1. Neon
  - 2. Hydrogen
  - 3. Argon
  - 4. Helium

**Q.14** Chand Bardai's famous literary work \_\_\_\_\_, mentions Prithviraj Chauhan's love story and heroic deeds.

- Ans**
- 1. Harakeli Nataka
  - 2. Abhidhana Chintamani
  - 3. Prithviraj Raso
  - 4. Rajamartanda

**Q.15** Who among the following freedom fighters is known as 'Deshbandhu'?

- Ans**
- 1. Gopal Krishna Gokhale
  - 2. Bhagat Singh
  - 3. Subhas Chandra Bose
  - 4. Chittaranjan Das

**Q.16** Buddhadev Dasgupta is famous for playing which of the following musical instruments?

- Ans**
- 1. Sarod
  - 2. Sarangi
  - 3. Bansuri
  - 4. Mridangam

**Q.17** Which of the following is NOT a Fundamental Duty of the Indian citizens?

- Ans**
- 1. To develop scientific temper, humanism and the spirit of inquiry and reform.
  - 2. To safeguard public property and to abjure violence.
  - 3. To cherish and follow the noble ideas that inspired our national struggle for freedom.
  - 4. Mandatory national service of 5 years.

**Q.18** What is the product formed when zinc and sulphuric acid react?

- Ans**
- 1. Zinc sulphate
  - 2. Zinc hydroxide
  - 3. Zinc sulphide
  - 4. Zinc oxide



**Q.19** Hindustani singer Pandit Venkatesh Kumar was honoured with 'Kalidas Samman-2022' by which state government?  
**Ans**  1. Madhya Pradesh  
 2. Maharashtra  
 3. Uttar Pradesh  
 4. Gujarat

**Q.20** In which form of exchange are goods used as medium of exchange?  
**Ans**  1. Online exchange  
 2. Credit exchange  
 3. Currency exchange  
 4. Barter exchange

**Q.21** Gangaur Festival, Pushkar Fair, Nagaur Fair and Urs Fair are the popular fairs and festivals of which state?  
**Ans**  1. Rajasthan  
 2. Tripura  
 3. Punjab  
 4. Maharashtra

**Q.22** \_\_\_\_\_ leaves are used to make bidis.  
**Ans**  1. Neem  
 2. Champa  
 3. Betel  
 4. Tendu

**Q.23** Which of the following hills is located in the Eastern Ghats?  
**Ans**  1. Naga hills  
 2. Khasi hills  
 3. Shevaroy hills  
 4. Anamudi hills

**Q.24** Who established Shantiniketan and when?  
**Ans**  1. Mahatma Gandhi, 1910  
 2. Ravindranath Tagore, 1901  
 3. Ravindranath Tagore, 1905  
 4. Devendranath Tagore, 1915

**Q.25** Which of the following institutes was founded by Mrinalini Sarabhai who was a Bharatanatyam and Kathakali dancer?  
**Ans**  1. Sri Thyagaraja College of Music and Dance  
 2. Nrityanjali Institute of Performing Arts  
 3. Darpana Academy of Performing Arts  
 4. Nalanda Nritya Kala Mahavidyalaya

Q.1 A person borrowed some money on simple interest. After 4 years, he returned  $\frac{9}{5}$  of the money to lender. What was the rate of interest?

- Ans
- 1. 20% p.a.
  - 2. 18% p.a.
  - 3. 17% p.a.
  - 4. 19% p.a.

Q.2 Every month, a man consumes 20 kg of rice and 8 kg of wheat. The price of rice is 20% of the price of wheat, resulting in a total expenditure of ₹300 per month for rice and wheat combined. If the price of wheat is increased by 20%, what percentage reduction in rice consumption is needed to maintain the same expenditure of ₹300? (Given that price of rice and consumption of wheat is constant.)

- Ans
- 1. 40%
  - 2. 38%
  - 3. 24%
  - 4. 22%

Q.3 A thief pursued by a policeman was 150 m ahead at the start. If the ratio of the speed of the policeman to that of the thief was 5 : 4, then how far (distance in metres) could the thief go before he is caught by the policeman?

- Ans
- 1. 350
  - 2. 200
  - 3. 600
  - 4. 400

Q.4 The given table shows the production of iron rods by a company for a period of 6 months. Study the table and answer the question that follows.

Month	January	March	May	July	September	November
Production	60	75	45	85	90	108

What is the ratio of the month having the highest production to the month having the least production?

- Ans
- 1. 9 : 5
  - 2. 12 : 5
  - 3. 1 : 2
  - 4. 5 : 12

Q.5 Solve the following:

$$\left[ (2.5 + 1.5)^2 \div 4 \text{ of } \frac{1}{2} \times 8 - 1 \right]$$

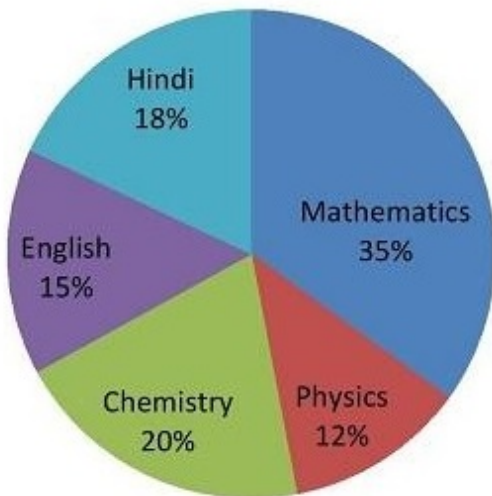
- Ans
- 1. 0
  - 2. 81
  - 3. 27.1
  - 4. 63

Q.6 Find the area of a sector with an arc length of 44 cm, which subtends a central angle of  $30^\circ$ .

- Ans
- 1.  $1488 \text{ cm}^2$
  - 2.  $1584 \text{ cm}^2$
  - 3.  $1848 \text{ cm}^2$
  - 4.  $1884 \text{ cm}^2$

Q.7 The following pie chart shows the study time of different subjects of a student in a day. Study the pie chart and answer the question.

## Percentage distribution of study-time of different subjects



If the student studied English for 3 hours, then he studied Mathematics for:

- Ans
- 1. 2 hours
  - 2. 1 hour
  - 3. 7 hours
  - 4. 5 hours

Q.8 Two cylinders have the radii of their bases in the ratio 4 : 5 and their heights are in the ratio 5 : 7. Find the ratio of their curved surface areas.

- Ans
- 1. 5 : 4
  - 2. 4 : 7
  - 3. 1 : 2
  - 4. 4 : 5

Q.9 Solve the following:

$$\frac{1}{1 + \cos\theta} + \frac{1}{1 - \cos\theta} = ?$$

- Ans
- 1.  $2\text{cosec}^2\theta$
  - 2.  $2\sin^2\theta$
  - 3.  $2\sec^2\theta$
  - 4.  $2\tan^2\theta$

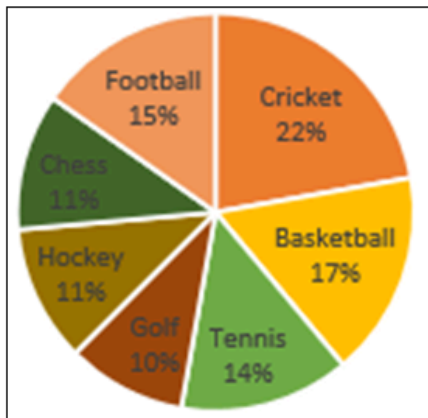
Q.10 Two pipes A and B can fill a tank in 48 minutes and 66 minutes, respectively. If both the pipes are opened simultaneously, then after how many minutes should pipe B be closed so that the tank gets filled in 32 minutes?

- Ans
- 1. 18
  - 2. 16
  - 3. 22
  - 4. 20

Q.11 If  $7 \tan \theta = 3$ , then  $\frac{7 \sin \theta + 5 \cos \theta}{7 \sin \theta - 2 \cos \theta}$  is:

- Ans
- 1. 7
  - 2. 5
  - 3. 8
  - 4. 6

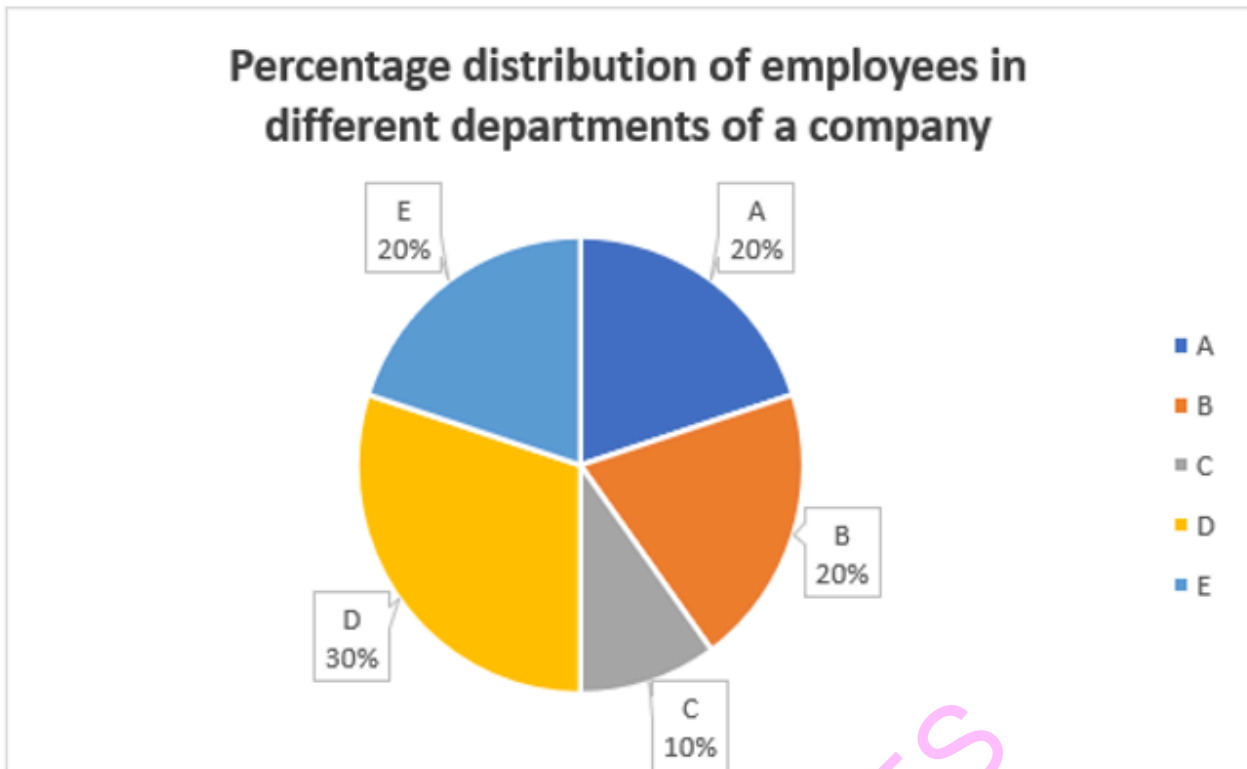
Q.12 The given pie chart shows the expenditure by a state government on various sports during a particular year.



If the total amount spent on tennis and football is ₹1,45,000, then the total amount (in ₹) spent on all the given sports is:

- Ans
- 1. 3,10,000
  - 2. 4,50,000
  - 3. 5,00,000
  - 4. 4,10,000

Q.13 The given pie-chart shows the percentage distribution of 20,000 employees in a company.



If 30% of the employees in department D are females, then how many male employees are there in that department?

- Ans
- 1. 4200
  - 2. 4500
  - 3. 5000
  - 4. 4000

Q.14 In triangle ABC, the length of side BC is 2 cm less than twice the length of side AB. The length of side AC exceeds the length of side AB by 10 cm. The perimeter of the triangle is 40 cm. Determine the length (in cm) of the smallest side of the triangle.

- Ans
- 1. 12
  - 2. 14
  - 3. 10
  - 4. 8

Q.15 If  $\cot^4\phi - \cot^2\phi = 1$ , then the value of  $\cos^4\phi + \cos^2\phi$  is:

- Ans
- 1. 2
  - 2. 1
  - 3.  $\frac{1}{\sqrt{3}}$
  - 4.  $\frac{3}{2}$

Q.16 The average of the squares of the first 46 natural numbers is

- Ans
- 1. 729.5
  - 2. 728.5
  - 3. 727.5
  - 4. 730.5

Q. 17 Find the gain percentage, given that Siddhi sold her scooter for ₹24318 gaining  $\frac{1}{6}$ th of the selling price.

Ans  1. 20%

2. 35%

3. 25%

4. 5%

Q.18 For the following equations, what are the values of a and b to have infinitely many solutions?

$$ax + by = 2$$

$$3x - (5 - 2a)y = 6$$

Ans  1.  $a = -1, b = -1$

2.  $a = -1, b = 1$

3.  $a = 1, b = -1$

4.  $a = 1, b = 1$

Q.19 Which of following numbers is NOT divisible by 11?

Ans  1. 109153

2. 5445

3. 128041

4. 80124

Q.20 If  $m + n = 24$ , then  $(m - 16)^3 + (n - 8)^3$  is \_\_\_\_\_.

Ans  1. 0

2. 40

3. 576

4. 320

Q.21 In  $\triangle DEF$ , the bisector of  $\angle D$  intersects side  $EF$  at point  $N$ . If  $DE = 36$  cm,  $DF = 40$  cm and  $EF = 38$  cm, then the length (in cm) of  $NF$  is \_\_\_\_\_.

Ans  1. 16

2. 20

3. 18

4. 12

Q.22 The ratio between male and female members in a club is 2 : 3. If the number of male members is increased by 200, the ratio becomes 5 : 6. How many female members are there in the club?

Ans  1. 1200

2. 900

3. 1400

4. 1000

Q.23 The MP of an article was Rs.180 and it was sold at a discount of 15%, the discount in Rs. is:

Ans  1. 12

2. 15

3. 27

4. 18

**Q.24** In a garden, there are 6 daisy plants the first year. Each year, a gardener adds 3 new daisy plants. He has 26 jasmine plants the first year and loses 2 each year. When will the number of daisy plants equal to the number of jasmine plants after the first year?

- Ans**
- 1. 5 years
  - 2. 4 years
  - 3. 2 years
  - 4. 6 years

**Q.25** From a point T, the length of the tangent to a circle is 32 cm and the distance of T from the centre is 40 cm. The diameter (in cm) of the circle is:

- Ans**
- 1. 36
  - 2. 16
  - 3. 32
  - 4. 48

Section : English Comprehension

**Q.1** Select the most appropriate synonym of the underlined word.  
Many people love to visit enchanting hills.

- Ans**
- 1. alluring
  - 2. cool
  - 3. risky
  - 4. echoing

**Q.2** Select the most appropriate ANTONYM of the word in brackets to fill in the blank.  
She has \_\_\_\_\_ (witty) remarks about everything.

- Ans**
- 1. sorry
  - 2. whimsical
  - 3. unamusing
  - 4. woeful

**Q.3** Select the sentence that does NOT have a spelling error.

- Ans**
- 1. The paintings are structured chronologically, starting from cubism to surrealism.
  - 2. The artist received recognition for her impressive etchings, buclic landscapes, and recreation of natural scenes around her.
  - 3. The insouciance of the rock star considering the importance of the occasion, came as a shock to the audience who expected stressful moments.
  - 4. The focus of the exhibition is to reinforce versatility and creative thinking.

**Q.4** Select the most appropriate synonym of the given word.  
Repulse

- Ans**
- 1. Repel
  - 2. Substitute
  - 3. Recover
  - 4. Reprove

**Q.5** The given sentence is divided into four segments. Select the option that has the segment with a grammatical error.  
The employees were comfortable / with me and they talked about / their problems since / I has worked there as a manager.

- Ans**
- 1. I has worked there as a manager.
  - 2. with me and they talked about
  - 3. their problems since
  - 4. The employees were comfortable

Q.6 Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct sequence to form a meaningful sentence.

(P) the sun

(Q) to our planet, Earth

(O) provides essential energy

(R) sustaining life and warmth

Ans  1. POQR

2. QROP

3. ROQP

4. ORPQ

Q.7 Select the correct option to form a meaningful sentence.

I / that / the chef / to work / in / the new / heard / restaurant / is going / across the road.

(a) (b) (c) (d) (e) (f) (g) (h) (i) (j)

Ans  1. a, c, g, b, h, i, f, e, d, j

2. a, b, d, c, e, f, h, g, i, j

3. a, b, d, c, g, e, f, h, i, j

4. a, g, b, c, i, d, e, f, h, j

Q.8 Select the most appropriate synonym of the word in brackets to fill in the blank.  
Listening to the same lecture everyday appeared very \_\_\_\_\_ to him. (boring)

Ans  1. monotonous

2. furious

3. nervous

4. monolithic

Q.9 Select the most appropriate option to substitute the underlined segment in the given sentence.  
My sisters wished me good luck before I went on the stage to sing.

Ans  1. Told me to sit on the fence

2. Told me to break a leg

3. Told me to break the ice

4. Told me to break an arm

Q.10 Select the most appropriate option that can substitute the underlined segment in the given sentence.  
Five years later, I was eating this same dish at the same restaurant.

Ans  1. will have be eating

2. has been eating

3. am eating

4. had been eating

Q.11 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

O. went

P. yesterday

Q. we

R. to the

S. park

Ans  1. RQOSP

2. OPQRS

3. PSROQ

4. QORSP



**Q.12** Select the INCORRECTLY spelt word in the given sentence.

One must be confident of winning and gaining one's goals and must face situations, disasters, trials and setbacks of life with confidence.

- Ans**
- 1. Trials
  - 2. Disasters
  - 3. Confident
  - 4. Setbacks

**Q.13** Select the most appropriate ANTONYM of the given word.  
Paralysed

- Ans**
- 1. Demure
  - 2. Stifled
  - 3. Sultry
  - 4. Healthy

**Q.14** Select the option that can be used as a one-word substitute for the given group of words.

The list of subjects to be discussed at a meeting

- Ans**
- 1. Minutes
  - 2. Objectives
  - 3. Agenda
  - 4. Menu

**Q.15** Select the option that expresses the given sentence in active voice.  
The drug pedlar was arrested by the narcotics team.

- Ans**
- 1. The narcotics team was arrested the drug pedlar.
  - 2. The narcotics team arrest the drug pedlar.
  - 3. The narcotics team arrested the drug pedlar.
  - 4. The narcotics team has arrested the drug pedlar.

**Q.16** The following sentence has been divided into four segments. Identify the segment that contains an adverbial usage error.  
Mr. Arun / will pay dear / for his / financial mistake.

- Ans**
- 1. will pay dear
  - 2. Mr. Arun
  - 3. for his
  - 4. financial mistake

**Q.17** Select the most appropriate option to fill in the blank.

We have postponed this movie outing too many times, so we are going tomorrow, come \_\_\_\_\_ or shine.

- Ans**
- 1. rain
  - 2. mountain
  - 3. hail
  - 4. thunder

**Q.18** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. needs to be
- B. the shelf in
- C. a piece of wood
- D. the kitchen
- E. need to buy
- F. replaced, so I will

- Ans**
- 1. BEFCAD
  - 2. ACDBFE
  - 3. DEBACF
  - 4. BDAFEC

**Q.19** Select the option that expresses the given sentence in passive voice.

**Scientists were conducting experiments on the newly discovered species.**

- Ans**
- 1. Experiments on the newly discovered species had been conducted by the scientists.
  - 2. The newly discovered species has been conducting experiments by scientists.
  - 3. The newly discovered species has been experimented on by scientists.
  - 4. Experiments were being conducted on the newly discovered species by scientists.

**Q.20** Select the most appropriate option to fill in the blanks.

He had \_\_\_\_\_ the \_\_\_\_\_ into smaller clips.

- Ans**
- 1. clipping, clips
  - 2. clipping, clipped
  - 3. clips, clipping
  - 4. clipped, clipping

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

People often say that the stars govern their fate but they forget the fact that success or failure is the result of one's own (1)\_\_\_\_\_. If we sow chaff, we can't reap grain; and the result or consequence of an action depends on what one does and to the extent he (2)\_\_\_\_\_ it. If we work hard, we succeed only to the extent that we work. People who think that the law of karma is (3)\_\_\_\_\_ may feel that if one is destined to get something he will always get it whether he strives for it or not. But experience tells us that reward and punishments are the direct result of our action. Honesty and hard work never go unrewarded and (4)\_\_\_\_\_ and evil deeds never go (5)\_\_\_\_\_. In fact even the law of karma, in its proper sense, means that the fruit we get is decided by whatever actions we did in the past.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. power
  - 2. incidents
  - 3. case
  - 4. actions

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

People often say that the stars govern their fate but they forget the fact that success or failure is the result of one's own (1)\_\_\_\_\_. If we sow chaff, we can't reap grain; and the result or consequence of an action depends on what one does and to the extent he (2)\_\_\_\_\_ it. If we work hard, we succeed only to the extent that we work. People who think that the law of karma is (3)\_\_\_\_\_ may feel that if one is destined to get something he will always get it whether he strives for it or not. But experience tells us that reward and punishments are the direct result of our action. Honesty and hard work never go unrewarded and (4)\_\_\_\_\_ and evil deeds never go (5)\_\_\_\_\_. In fact even the law of karma, in its proper sense, means that the fruit we get is decided by whatever actions we did in the past.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. does
  - 2. have
  - 3. create
  - 4. put

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

People often say that the stars govern their fate but they forget the fact that success or failure is the result of one's own (1)\_\_\_\_\_. If we sow chaff, we can't reap grain; and the result or consequence of an action depends on what one does and to the extent he (2)\_\_\_\_\_ it. If we work hard, we succeed only to the extent that we work. People who think that the law of karma is (3)\_\_\_\_\_ may feel that if one is destined to get something he will always get it whether he strives for it or not. But experience tells us that reward and punishments are the direct result of our action. Honesty and hard work never go unrewarded and (4)\_\_\_\_\_ and evil deeds never go (5)\_\_\_\_\_. In fact even the law of karma, in its proper sense, means that the fruit we get is decided by whatever actions we did in the past.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. supreme
  - 2. greatest
  - 3. more
  - 4. most

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

People often say that the stars govern their fate but they forget the fact that success or failure is the result of one's own (1)\_\_\_\_\_. If we sow chaff, we can't reap grain; and the result or consequence of an action depends on what one does and to the extent he (2)\_\_\_\_\_ it. If we work hard, we succeed only to the extent that we work. People who think that the law of karma is (3)\_\_\_\_\_ may feel that if one is destined to get something he will always get it whether he strives for it or not. But experience tells us that reward and punishments are the direct result of our action. Honesty and hard work never go unrewarded and (4)\_\_\_\_\_ and evil deeds never go (5)\_\_\_\_\_. In fact even the law of karma, in its proper sense, means that the fruit we get is decided by whatever actions we did in the past.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. horribly
  - 2. badly
  - 3. dishonesty
  - 4. fairness

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

People often say that the stars govern their fate but they forget the fact that success or failure is the result of one's own (1)\_\_\_\_\_. If we sow chaff, we can't reap grain; and the result or consequence of an action depends on what one does and to the extent he (2)\_\_\_\_\_ it. If we work hard, we succeed only to the extent that we work. People who think that the law of karma is (3)\_\_\_\_\_ may feel that if one is destined to get something he will always get it whether he strives for it or not. But experience tells us that reward and punishments are the direct result of our action. Honesty and hard work never go unrewarded and (4)\_\_\_\_\_ and evil deeds never go (5)\_\_\_\_\_. In fact even the law of karma, in its proper sense, means that the fruit we get is decided by whatever actions we did in the past.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

**Ans** ✓ 1. unpunished

✗ 2. vile

✗ 3. punished

✗ 4. waste

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

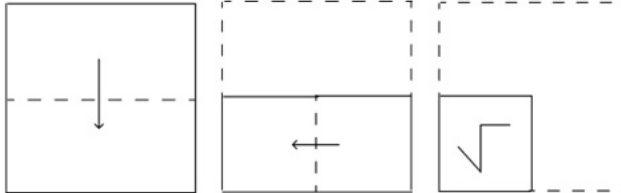
Exam Date	12/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** In a certain code language, 'RIVAL' is coded as 'PKTCJ' and 'TEXTS' is coded as 'RGVVQ'. How will 'POINT' be coded in the given language?

- Ans**
- 1. NRGOR
  - 2. OQGPO
  - 3. NQGPR
  - 4. OQGOQ

**Q.2** A paper is folded and cut as shown below. How will it appear when unfolded?



**Ans**

- 1.
- 2.
- 3.
- 4.

**Q.3** Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**  
 No lotus is a daisy.  
 All lotuses are tulips.  
 All tulips are sunflowers.

**Conclusions:**  
 I. All daisies are tulips.  
 II. Some sunflowers are daisies.  
 III. No sunflower is a daisy.

- Ans**
- 1. Only conclusion II follows
  - 2. Either conclusion II or III follows
  - 3. Only conclusion I follows
  - 4. Only conclusion III follows

Q.4 Which of the following interchanges of numbers (not digits) would make the given equation correct?

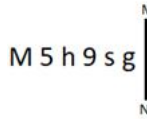
$$2^{57-33} + 11 \times 13 - 2 + 3^{64-56} + 8 \times 4 - 44 = 35$$

- Ans
- 1. 2 and 4
  - 2. 56 and 57
  - 3. 57 and 64
  - 4. 33 and 44

Q.5 Which letter cluster can replace the question mark (?) to complete the given series?  
AZFX, EHHW, ?, MQLU, QNNT

- Ans
- 1. IJTV
  - 2. JITV
  - 3. ITJV
  - 4. JTIV

Q.6 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. s g e r d 5 M
  - 2. 2 8 6 4 2 W
  - 3. g z e r d 2 M
  - 4. g z 6 4 2 M

Q.7 In a certain code language, 'MUTUAL' is written as '12121202113', 'MARKET' is written as '2051118113', how will 'MODULE' be written in that language?

- Ans
- 1. 1315421125
  - 2. 5122141513
  - 3. 5122141613
  - 4. 14122361522

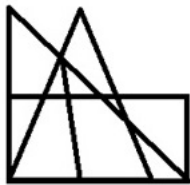
Q.8 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
ALW : NYJ :: CNY : PAL :: DEP : ?

- Ans
- 1. QRD
  - 2. QRC
  - 3. SRC
  - 4. SRD

Q.9 Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $49 \times 7 - 6 \div 2 + 15 = ?$

- Ans
- 1. 2
  - 2. 5
  - 3. 8
  - 4. 4

Q.10 How many triangles are there in the given figure?



- Ans
- 1. 13
  - 2. 12
  - 3. 15
  - 4. 14

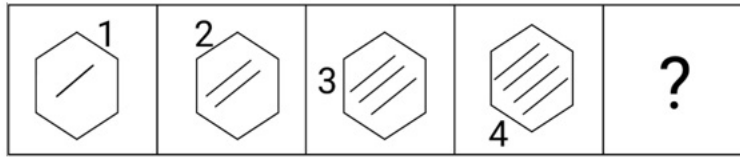
Q.11 Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group? The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

- Ans
- 1. JOR
  - 2. AFI
  - 3. MRU
  - 4. LQS

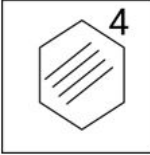
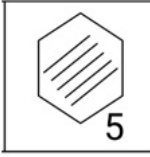
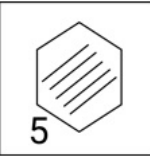
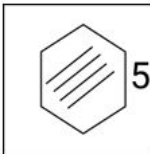
Q.12 All of the letters in the word 'FROWNED' are arranged in alphabetical order. How many letters are there in the English alphabetical series between the letter which is fourth from the left end and the one which is second from the right end in the new letter-cluster thus formed?

- Ans
- 1. Five
  - 2. Two
  - 3. Three
  - 4. Four

Q.13 Select the figure from among the given options that can replace the question mark (?) in the following series.



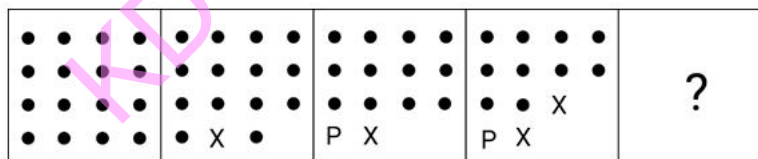
Ans

- 1. 
- 2. 
- 3. 
- 4. 

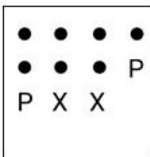
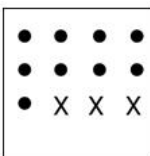
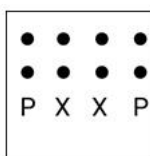
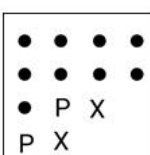
Q.14 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
FISH : DKQJ :: POND : NQLF :: SIZE : ?

- Ans
- 1. QGXG
  - 2. UGXC
  - 3. UKXC
  - 4. QKXG

Q.15 Identify the figure from among the given options which when put in place of the question mark (?) will logically complete the series.



Ans

- 1. 
- 2. 
- 3. 
- 4. 

Q.16 Three of the following number-pairs are alike in some manner and hence form a group. Which number-pair does not belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

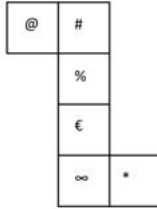
Ans  1. 14 – 121

2. 21 – 361

3. 18 – 256

4. 11 – 81

Q.17 A cube is constructed by folding the given sheet along the lines shown. In the cube so formed, what would be the symbol on the opposite side of '#'?



Ans  1. @

2. ∞

3. €

4. %

Q.18 Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.

f d \_ e \_ e f \_ d \_ d \_ f f \_ d \_ d \_ f

Ans  1. d d f e e d e d

2. d d f e f d e e

3. d d f d e d e f

4. d d f e e d e e

Q.19 Select the set in which the numbers are related in the same way as are the numbers of the following set.

3 – 5 – 30

2 – 4 – 16

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans  1. 5 – 5 – 45

2. 6 – 6 – 72

3. 9 – 5 – 27

4. 9 – 4 – 7

Q.20 In a certain code language,

'A + B' means 'A is the mother of B';  
'A – B' means 'A is the husband of B';  
'A × B' means 'A is the father of B' and  
'A ÷ B' means 'A is the daughter of B'.

Based on the above, how is K related to O if 'K ÷ L – M + N × O'?

Ans  1. Sister's daughter

2. Father's sister

3. Mother's sister

4. Father's mother

Q.21 Select the set in which the numbers are related in the same way as are the numbers of the following set.

(34, 17, 27)

(42, 21, 31)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans  1. (38, 16, 36)

2. (54, 27, 37)

3. (46, 23, 35)

4. (64, 34, 54)

Q.22 44 is related to 1936 by certain logic. Following the same logic, 59 is related to 3481. To which of the following is 77 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans  1. 5824

2. 5929

3. 7642

4. 4469

Q.23 Which of the following numbers will replace the question mark (?) in the given series?

7, 13, ?, 145, 721, 4321

Ans  1. 23

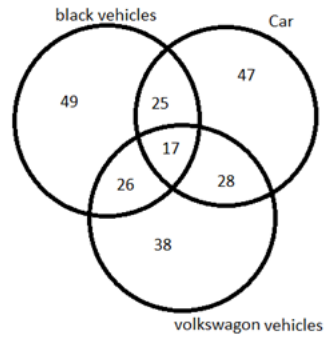
2. 36

3. 25

4. 37

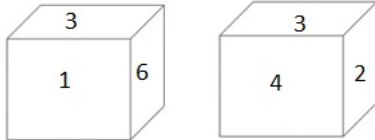


Q.24 How many people like either only cars or only Volkswagen vehicles as per the given Venn diagram?



- Ans
- 1. 85
  - 2. 66
  - 3. 28
  - 4. 75

Q.25 Two different positions of the same dice are given below. Which is the number on the face opposite the face containing 5?



- Ans
- 1. 6
  - 2. 3
  - 3. 1
  - 4. 2

Section : General Awareness

Q.1 What was Antoine-Laurent Lavoisier's most important contribution to chemistry in 1789?

- Ans
- 1. Law of Conservation of Mass
  - 2. Law of Multiple Proportions
  - 3. Law of Definite Proportions
  - 4. Law of Conservation of Energy

Q.2 An electric iron requires a \_\_\_\_\_ fuse to prevent short circuiting.

- Ans
- 1. 4 A
  - 2. 3 A
  - 3. 2 A
  - 4. 5 A

Q.3 Who among the following is primarily connected to the World's Parliament of Religions convened in Chicago, 1893?

- Ans
- 1. Dayanand Saraswati
  - 2. Swami Vivekananda
  - 3. Raja Ram Mohan Roy
  - 4. Ramakrishna Paramhansa

Q.4 Khuallam is a famous dance of:

- Ans
- 1. Bihar
  - 2. Andhra Pradesh
  - 3. Mizoram
  - 4. Uttar Pradesh

Q.5 The concept of Public Interest Litigation originated in \_\_\_\_\_.

- Ans
- 1. Switzerland
  - 2. Iceland
  - 3. USA
  - 4. New Zealand

Q.6 Thrissur Pooram is one of the famous temple festivals celebrated in \_\_\_\_\_.

- Ans
- 1. Andhra Pradesh
  - 2. Kerala
  - 3. Karnataka
  - 4. Tamil Nadu

Q.7 Identify the group of districts that are NOT an example of industrial districts of India.

- Ans
- 1. Cuttack and Kota
  - 2. Kanpur and Agra
  - 3. Alwar and Bhiwani
  - 4. Jabalpur and Bhopal

Q.8 Match the concepts in column A with their respective descriptions in column B.

Column A

- a. Gross national product
- b. Net national product
- c. Personal income
- d. Disposable personal income

Column B

- 1. Annual income received by the individual's production in a given period
- 2. After the tax of personal income
- 3. Money value of the national output
- 4. Net production of goods services during the year

- Ans
- 1. a-2, b-1, c-3, d-4
  - 2. a-3, b-1, c-2, d-4
  - 3. a-3, b-4, c-1, d-2
  - 4. a-4, b-3, c-2, d-1

Q.9 Ustad Zia Mohiuddin Dagar was a \_\_\_\_\_ player of profound depth, favouring sparse and slow realisations of ragas.

- Ans
- 1. Sitar
  - 2. Violin
  - 3. Flute
  - 4. Rudra veena

Q.10 The headquarters of the second Green Revolution cell was in \_\_\_\_\_.

- Ans
- 1. Raipur
  - 2. Patna
  - 3. Kolkata
  - 4. Bhubaneswar

Q.11 Who was the Viceroy of India when Mahatma Gandhi started Dandi March on 12 March 1930?

- Ans
- 1. Lord Chelmsford
  - 2. Lord Minto II
  - 3. Lord Inwin
  - 4. Lord Willingdon

Q.12 Who is the world's most popular leader as per Global Leader Approval Ratings released by US-based Morning Consult in February 2023?

- Ans
- 1. Xi Jinping
  - 2. Vladimir Putin
  - 3. Joe Biden
  - 4. Narendra Modi

Q.13 In which year was Smart Cities Mission launched?

- Ans
- 1. 2015
  - 2. 2013
  - 3. 2019
  - 4. 2018

Q.14 Which of the following nations won the seven times women's Asia Cup cricket Championship?

- Ans
- 1. Pakistan
  - 2. Bangladesh
  - 3. India
  - 4. Sri Lanka

Q.15 Which Article of the Indian Constitution provides that the State must secure a social order to promote the welfare of people?

- Ans
- 1. Article 37
  - 2. Article 38
  - 3. Article 39
  - 4. Article 36

Q.16 Identify a water-harvesting system found in Jaisalmer.

- Ans
- 1. Guls
  - 2. Johads
  - 3. Khadins
  - 4. Kuls

Q.17 The \_\_\_\_\_ were tributary chiefs of the Gupta dynasty. They established an independent kingdom in western India. Dhruvasena II was the most important ruler of this kingdom.

- Ans
- 1. Maitrakas
  - 2. Maukharis
  - 3. Pushyabhutis
  - 4. Gurjara Pratiharas

Q.18 As of 31 May 2021, only 47% of total routes and 39% of airports (unserved and underserved) have been operationalised under UDAN, according to ICRA. What is the full form of UDAN?

- Ans
- 1. Udtha Desh Ka Aam Nayak
  - 2. Ude Desh Ka Aam Naagrik
  - 3. Unnath Desh Ka Aam Naagrik
  - 4. Ujwal Desh Ka Aam Naagrik

Q.19 Which of the following options is the most appropriate cause for unemployment in India?

- Ans
- 1. Over population
  - 2. Environment conditions
  - 3. High educational systems
  - 4. Lack of labour force

Q.20 As of the June 2021, how many biosphere reserves are established in India?

- Ans
- 1. 18
  - 2. 20
  - 3. 26
  - 4. 15

Q.21 In which of the following battles did Muhammad of Ghor defeat Jayachandra of Gahadavala dynasty in 1194 AD?

- Ans
- 1. First battle of Tarain
  - 2. Battle of Chandawar
  - 3. Battle of Anhilwara
  - 4. Second battle of Tarain

Q.22 The growth form of a plant, comprising its size, shape and orientation is known as:

- Ans
- 1. habit
  - 2. environment
  - 3. habitat
  - 4. growth pattern

Q.23 When and where did India win its first World Championships medal in Athletics?

- Ans
- 1. 2009, Germany
  - 2. 2005, Finland
  - 3. 2007, Japan
  - 4. 2003, France

Q.24 Tabla maestro, Bickram Ghosh, was awarded with which of the following awards in 2023 in the Contemporary Category?

- Ans
- 1. Padma Shri
  - 2. Padma Bhushan
  - 3. Sangeet Natak Akademi
  - 4. Sangeet Kalanidhi

Q.25 According to the Census of India 2011, the percentage of adolescent population (10-19 years) from the total population is how much?

- Ans
- 1. 22.9%
  - 2. 21.9%
  - 3. 20.9%
  - 4. 19.9%

Section : Quantitative Aptitude

Q.1 A pair of straight lines from an external point F intersects a circle at A and B ( $FA < FB$ ), and touches the circle at C. O is the centre of the circle. Given that  $\angle ACF = 50^\circ$  and  $\angle AFC = 30^\circ$ , find  $\angle AOB$ .

- Ans
- 1.  $80^\circ$
  - 2.  $90^\circ$
  - 3.  $100^\circ$
  - 4.  $40^\circ$

Q.2 The difference between a discount of 25% and two successive discounts of 15% and 20% on a certain bill was ₹28. Find the amount of the bill.

- Ans
- 1. ₹500
  - 2. ₹400
  - 3. ₹450
  - 4. ₹550

Q.3 Which of the following numbers is divisible by 2, 5, 10 and 11?

- Ans
- 1. 203467
  - 2. 830942
  - 3. 589270
  - 4. 1234560

Q.4 Which of the following is the sum of the values of a and b if the equations  $2x + y = a$ ,  $8x + by = 12$  have infinite solutions?

- Ans
- 1. 16
  - 2. 9
  - 3. 7
  - 4. 18

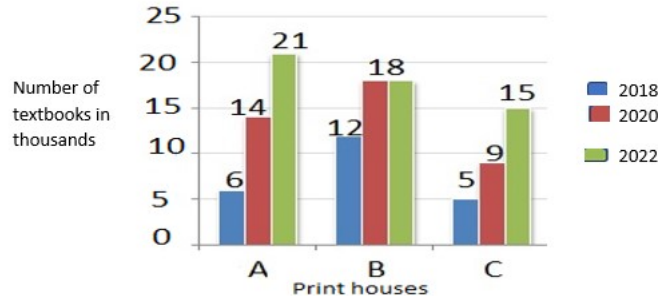
Q.5 How much simple interest will ₹6,700 earn in 13 months at a 12% interest rate per annum?

- Ans
- 1. ₹871
  - 2. ₹889
  - 3. ₹821
  - 4. ₹813

Q.6 If  $\tan 4\theta \cdot \tan 6\theta = 1$ , where  $6\theta$  is an acute angle, then find the value of  $\cot 5\theta$ .

- Ans
- 1.  $\sqrt{3}$
  - 2.  $-\sqrt{3}$
  - 3. -1
  - 4. 1

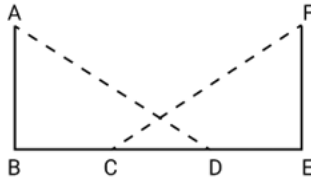
Q.7 Study the given chart and answer the question that follows. The following chart shows the production of textbooks in thousands in the years 2018, 2020 and 2022 from the print houses A, B and C, respectively.



The ratio of textbooks produced by Print house B in the year 2018 to the textbooks produced by Print house C in the year 2020 is \_\_\_\_\_.

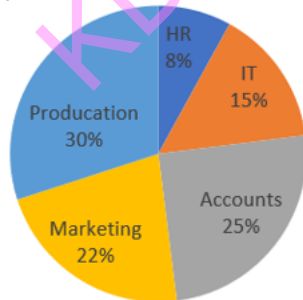
- Ans
- 1. 4 : 5
  - 2. 3 : 4
  - 3. 4 : 3
  - 4. 2 : 3

Q.8 In  $\triangle ABD$  and  $\triangle FEC$ ,  $\angle BAD = 60^\circ$ ,  $l(BD) = l(EC)$ ,  $\angle ABD = \angle FEC = 90^\circ$ , and  $l(AB) = l(FE)$ . Find the ratio of  $\frac{\angle BAD}{\angle FCE}$ .



- Ans
- 1. 2 : 3
  - 2. 1 : 2
  - 3. 2 : 5
  - 4. 2 : 1

Q.9 The following pie chart shows the percentage distribution of a total of 1600 employees in different departments of a company. The table shows the ratio of male to female employees in different departments. Study the information and answer the question that follows.



Departments	Male : Female
HR	3 : 5
IT	2 : 3
Accounts	3 : 7
Marketing	7 : 4
Production	5 : 3

What is the percentage of the number of employees in production department to the number of female employees of all the departments taken together? (correct to one decimal place)

- Ans
- 1. 64.3%
  - 2. 50.7%
  - 3. 44.9%
  - 4. 59.1%

Q.10 Find the smallest value that must be assigned to number 'a' in order for 91876a2 to be divisible by 8.

- Ans
- 1. 3
  - 2. 0
  - 3. 1
  - 4. 2

Q. Two pipes A and B can fill a tank in  $1\frac{1}{3}$  hours and 2 hours, respectively. If both the pipes are opened simultaneously, then in how much time will the tank be filled?

Ans  1.  $1\frac{1}{4}$  hours

2. 55 minutes

3. 48 minutes

4.  $1\frac{2}{3}$  hours

Q.12 If  $a^2 + b^2 + c^2 = 2(a + c - 1)$ , then the value of  $a^3 + b^3 + c^3 = ?$

Ans  1. 0

2. 2

3. 4

4. 1

Q.13 A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along with the current in 10 minutes. How long will it take to go 6 km in stationary water?

Ans  1. 1 hr 30 min

2. 1 hr 15 min

3. 2 hr 30 min

4. 1 hr 45 min

Q.14 Find the values of x, y and z, so as to satisfy the equations given below:  
 $5x - 3y + 7z = 22$ ;  $3x - 5y - 2z = -46$ ;  $2x - 2y + 5z = 24$

Ans  1.  $x = -5, y = 3, z = -8$

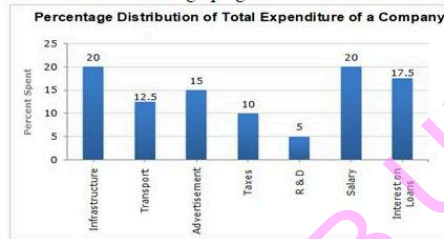
2.  $x = 5, y = -8, z = 3$

3.  $x = -5, y = 3, z = 8$

4.  $x = -5, y = -3, z = 8$

Q.15

In 2010, a company's total expenditure was categorised under different expense heads, and their percentage distribution is illustrated in the bar graph given below.



The total amount of expenditure of the company is \_\_\_\_\_ times that of expenditure on R & D.

Ans  1. 20

2. 38

3. 32

4. 28

Q.16 The circumference of the base of a conical tent of height 8 m is  $32\pi$  m. Find its curved surface area.

Ans  1.  $164\sqrt{5}\pi\text{m}^2$

2.  $162\sqrt{3}\pi\text{m}^2$

3.  $132\sqrt{3}\pi\text{m}^2$

4.  $128\sqrt{5}\pi\text{m}^2$

Q.17 Find the exact value of  $\sin 150^\circ$ .

Ans  1. 1.5

2. 0.5

3. 0.75

4. -0.5

Q.18 The mean proportional of 2 and 32 is \_\_\_\_\_.

Ans  1. 16

2. 8

3. 12

4. 6

Q.19 The profit gained on selling a certain product is 320% of the cost. If the cost increases by 10% but the selling price remains constant, then what percentage of the selling price is the profit (correct to one decimal place)?

Ans  1. 70.2%

2. 73.8%

3. 75.7%

4. 63.8%

Q.20 A circular arc whose radius is 12 cm makes an angle of  $30^\circ$  at the centre. Find the perimeter (in cm) of the sector formed. (Use  $\pi = 3.14$ )

- Ans
- 1. 32.38
  - 2. 30.28
  - 3. 28.64
  - 4. 26.24

Q.21 A merchant mixes two varieties of sugar of 5 kg and 3 kg, which costs him ₹4 and ₹6 per kg, respectively. What is the cost price (in ₹) of the mixture per kg?

- Ans
- 1. 4.35
  - 2. 4.45
  - 3. 4.75
  - 4. 4.21

Q.22 The proportion of Suresh's spending to saving is 3 : 1. His salary rises by 25%. What percentage of his expenditure will increase if his saving grows by 10%?

- Ans
- 1. 40%
  - 2. 20%
  - 3. 10%
  - 4. 30%

Q.23 The table below shows the production of three types of cars (A, B and C) manufactured (in thousands) by an automobile company over the years.

Year	A	B	C
2012	1750	1880	1900
2013	1800	2950	2070
2014	2950	3020	3150
2015	3100	3240	3290

The average number of A-type cars produced by the company during 2012 to 2014 is what percent (rounded off to the 1 decimal place) less than the combined average number of B-type and C-type cars produced by the company from 2013 to 2015?

- Ans
- 1. 36.6%
  - 2. 26.6%
  - 3. 28.4%
  - 4. 25.5%

Q.24 If  $7 \cos A = 6$ , then the numerical value of  $\frac{\operatorname{cosec} A + \cot A}{\operatorname{cosec} A - \cot A}$  is:

- Ans
- 1. 1
  - 2. 0
  - 3. 13
  - 4. -13

Q.25 If the sectorial angle with radius 9.6 units is  $75^\circ$ , what is the length of the arc?

- Ans
- 1.  $2\pi$
  - 2.  $4\pi$
  - 3.  $\pi$
  - 4.  $3\pi$

Section : English Comprehension

Q.1 Select the option that correctly expresses the given sentence in passive voice.  
I will never overlook this creativity.

- Ans
- 1. This creativity will never be overlooked by me.
  - 2. This creativity will be overlooked by me.
  - 3. This creativity will being overlooked by me.
  - 4. This creativity will not never be overlooked by me.

Q.2 Select the option that can be used as a one-word substitute for the given group of words.  
A place where birds are kept

- Ans
- 1. Zoo
  - 2. Aviary
  - 3. Sanctuary
  - 4. Hive

Q.3 Select the most appropriate ANTONYM of the given word.  
Catastrophe

- Ans
- 1. Success
  - 2. Nurture
  - 3. Immaculate
  - 4. Disaster

Q.4 Select the most appropriate option that can substitute the underlined segment in the given sentence.  
Beyond skills, experience, and training, companies search for applicants who display excitement — those they believe shall carry out allocated responsibilities cheerfully and cooperatively.

- Ans
- 1. shall take up any designated obligations
  - 2. will execute assigned duties
  - 3. will demonstrate non-biased work
  - 4. should pick up all skills and works

Q.5 Select the most appropriate option to fill in the blank.  
After years of fights with his neighbour Ram, Shekhar decided to hold out the \_\_\_\_\_ and invited Ram for tea.

- Ans
- 1. poker face
  - 2. comparing apples to oranges
  - 3. chip on shoulder
  - 4. olive branch

Q.6 Select the INCORRECTLY spelt word.

- Ans
- 1. Centenary
  - 2. Consumerist
  - 3. Capitalist
  - 4. Countemptible

Q.7 Select the most appropriate ANTONYM of the underlined word in the given sentence.  
One must be very strong to lift this box of glass jars.

- Ans
- 1. Mighty
  - 2. Weak
  - 3. Complicated
  - 4. Rugged

Q.8 Select the most appropriate meaning of the underlined idiom.

Anand personally believes in the motto, "When life gives you lemons, make lemonade."

- Ans
- 1. Earn the maximum out of business
  - 2. Nourish health
  - 3. Enjoy the most when the season is favourable
  - 4. Make the best out of difficult situations

Q.9 Select the most appropriate ANTONYM of the given word.  
Monotonous

- Ans
- 1. Tiresome
  - 2. Tedious
  - 3. Engrossing
  - 4. Rational

Q.10 Identify the INCORRECTLY spelt word in the following sentence.  
You need to be concious enough to listen to the question.

- Ans
- 1. concious
  - 2. enough
  - 3. question
  - 4. listen

Q.11 Select the most appropriate synonym to replace the underlined word in the given sentence.

How did we end up in this rapturous situation?

- Ans
- 1. ecstatic
  - 2. terrifying
  - 3. misleading
  - 4. disastrous

Q.12 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The mother asked the child, "Will you tell me who did accompany you to the airport?"

- Ans
- 1. who accompanies you
  - 2. who does accompany you
  - 3. who accompanied you
  - 4. who must be accompanied you

Q.13 Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct sequence to form a meaningful and coherent paragraph.

- A) This past summer, my dream finally came true.
- B) Strange lands, exciting places, and new cultures have always fascinated me.
- C) Ever since I was a little girl, I dreamed about travelling overseas.
- D) I got to travel to England, France, Switzerland, and Germany.

- Ans
- 1. DCBA
  - 2. CBAD
  - 3. ABCD
  - 4. BADC

Q.14 Select the most appropriate synonym of the given word.

Rectify

- Ans
- 1. mar
  - 2. amend
  - 3. corrupt
  - 4. upset

Q.15 Select the most appropriate option to fill in the blank.

To \_\_\_\_\_ the ticket, Amith had to visit the travel agency many times.

- Ans
- 1. contract
  - 2. confirm
  - 3. conform
  - 4. convention

Q.16 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.  
My brother received / his MBA degree into / the university last year.

- Ans
- 1. the university last year
  - 2. his MBA degree into
  - 3. No error
  - 4. My brother received

Q.17 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. Mobile phones or smartphones are becoming popular all over the world.
- B. But at the same time, it also harms us in many ways.
- C. It is the most widely used means of communication today.
- D. Today, it is very affordable and available to everyone.

- Ans
- 1. ABCD
  - 2. DACB
  - 3. CABD
  - 4. ACDB

Q.18 Select the option that can be used as a one-word substitute for the given phrase.

Incapable of being defeated

- Ans
- 1. Invisible
  - 2. Unavoidable
  - 3. Invincible
  - 4. Ineluctable

Q.19 Select the option that correctly expresses the following sentence in passive voice.  
Who invited you to this party?

- Ans
- 1. By whom you are invited to this party?
  - 2. By whom are you invited to this party?
  - 3. By whom you were invited to this party?
  - 4. By whom were you invited to this party?

Q.20 The following sentence has been divided into four segments. Identify the segment that contains an error in the usage of the interjection.

He replied / in a dry tone, / "Ouch! I will not work / for you anymore."

- Ans
- 1. in a dry tone,
  - 2. He replied
  - 3. for you anymore."
  - 4. "Ouch! I will not work

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Gandhi, (1) \_\_\_\_\_ father of the Indian nation, practiced 'ahimsa' in his personal and political life. He firmly believed that non-violence is not meant merely for monks, saints and priests; it is for commoners too. If violence is the law of the (2) \_\_\_\_\_-beasts, non-violence is the law of the civilised human species. 'The spirit of the brute is inactive and so he knows no law; he knows only physical might. The dignity of man requires obedience to a higher law, to strength of the spirit,' Gandhi said. Ahimsa, to Gandhiji, meant that one should love all; even (3) \_\_\_\_\_ enemies. And the expression of love, ahimsa, should be in such a manner that it impresses itself indelibly upon the so-called enemy, and then the enemy must return that love. It is a practically (4) \_\_\_\_\_ philosophy. Gandhi was realistic; he believed that non-violence provides the fullest protection to one's self-respect and sense of humour. It won't work in the defence of (5) \_\_\_\_\_ gains and immoral acts. He called his marches off when people indulged in violence during protests for India's freedom. His faith in 'ahimsa' played an influential role in enabling the creation of an independent India in 1947, with minimum bloodshed, breaking the shackles framed by the British.

**SubQuestion No : 21**

Q.21 Select the most appropriate option to fill in blank number 1.

- Ans
- 1. an
  - 2. for
  - 3. the
  - 4. a



**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Gandhi, (1) \_\_\_\_\_ father of the Indian nation, practiced 'ahimsa' in his personal and political life. He firmly believed that non-violence is not meant merely for monks, saints and priests; it is for commoners too. If violence is the law of the (2) \_\_\_\_\_-beasts, non-violence is the law of the civilised human species. 'The spirit of the brute is inactive and so he knows no law; he knows only physical might. The dignity of man requires obedience to a higher law, to strength of the spirit,' Gandhi said. Ahimsa, to Gandhiji, meant that one should love all; even (3) \_\_\_\_\_ enemies. And the expression of love, ahimsa, should be in such a manner that it impresses itself indelibly upon the so-called enemy, and then the enemy must return that love. It is a practically (4) \_\_\_\_\_ philosophy. Gandhi was realistic; he believed that non-violence provides the fullest protection to one's self-respect and sense of humour. It won't work in the defence of (5) \_\_\_\_\_ gains and immoral acts. He called his marches off when people indulged in violence during protests for India's freedom. His faith in 'ahimsa' played an influential role in enabling the creation of an independent India in 1947, with minimum bloodshed, breaking the shackles framed by the British.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. forest-living
  - 2. life
  - 3. forest-lived
  - 4. alive

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Gandhi, (1) \_\_\_\_\_ father of the Indian nation, practiced 'ahimsa' in his personal and political life. He firmly believed that non-violence is not meant merely for monks, saints and priests; it is for commoners too. If violence is the law of the (2) \_\_\_\_\_-beasts, non-violence is the law of the civilised human species. 'The spirit of the brute is inactive and so he knows no law; he knows only physical might. The dignity of man requires obedience to a higher law, to strength of the spirit,' Gandhi said. Ahimsa, to Gandhiji, meant that one should love all; even (3) \_\_\_\_\_ enemies. And the expression of love, ahimsa, should be in such a manner that it impresses itself indelibly upon the so-called enemy, and then the enemy must return that love. It is a practically (4) \_\_\_\_\_ philosophy. Gandhi was realistic; he believed that non-violence provides the fullest protection to one's self-respect and sense of humour. It won't work in the defence of (5) \_\_\_\_\_ gains and immoral acts. He called his marches off when people indulged in violence during protests for India's freedom. His faith in 'ahimsa' played an influential role in enabling the creation of an independent India in 1947, with minimum bloodshed, breaking the shackles framed by the British.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. her
  - 2. its
  - 3. one's
  - 4. one

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Gandhi, (1) \_\_\_\_\_ father of the Indian nation, practiced 'ahimsa' in his personal and political life. He firmly believed that non-violence is not meant merely for monks, saints and priests; it is for commoners too. If violence is the law of the (2) \_\_\_\_\_-beasts, non-violence is the law of the civilised human species. 'The spirit of the brute is inactive and so he knows no law; he knows only physical might. The dignity of man requires obedience to a higher law, to strength of the spirit,' Gandhi said. Ahimsa, to Gandhiji, meant that one should love all; even (3) \_\_\_\_\_ enemies. And the expression of love, ahimsa, should be in such a manner that it impresses itself indelibly upon the so-called enemy, and then the enemy must return that love. It is a practically (4) \_\_\_\_\_ philosophy. Gandhi was realistic; he believed that non-violence provides the fullest protection to one's self-respect and sense of humour. It won't work in the defence of (5) \_\_\_\_\_ gains and immoral acts. He called his marches off when people indulged in violence during protests for India's freedom. His faith in 'ahimsa' played an influential role in enabling the creation of an independent India in 1947, with minimum bloodshed, breaking the shackles framed by the British.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. prove
  - 2. approved
  - 3. proven
  - 4. proving

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Gandhi, (1) \_\_\_\_\_ father of the Indian nation, practiced 'ahimsa' in his personal and political life. He firmly believed that non-violence is not meant merely for monks, saints and priests; it is for commoners too. If violence is the law of the (2) \_\_\_\_\_-beasts, non-violence is the law of the civilised human species. 'The spirit of the brute is inactive and so he knows no law; he knows only physical might. The dignity of man requires obedience to a higher law, to strength of the spirit,' Gandhi said. Ahimsa, to Gandhiji, meant that one should love all; even (3) \_\_\_\_\_ enemies. And the expression of love, ahimsa, should be in such a manner that it impresses itself indelibly upon the so-called enemy, and then the enemy must return that love. It is a practically (4) \_\_\_\_\_ philosophy. Gandhi was realistic; he believed that non-violence provides the fullest protection to one's self-respect and sense of humour. It won't work in the defence of (5) \_\_\_\_\_ gains and immoral acts. He called his marches off when people indulged in violence during protests for India's freedom. His faith in 'ahimsa' played an influential role in enabling the creation of an independent India in 1947, with minimum bloodshed, breaking the shackles framed by the British.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. relevant
  - 2. ill-gotten
  - 3. ill-will
  - 4. moral

## Combined Graduate Level Examination 2024 Tier I

Exam Date	13/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

Q.1 Which of the following interchanges of numbers (not digits) would make the given equation correct?

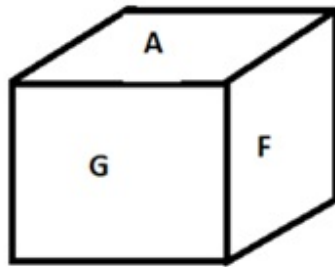
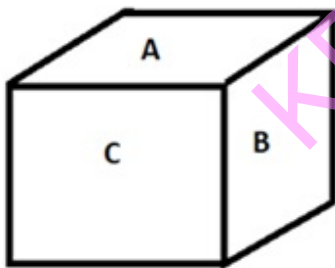
$$\frac{480 \div 0.3 \times 5 + 500}{190 + 9 \times 27 \div 1.6} = 2$$

- Ans
- 1. 500 and 190
  - 2. 0.3 and 1.6
  - 3. 27 and 480
  - 4. 5 and 9

Q.2 In a certain code language, 'mountain stand tall' is coded as '33 66 44'; 'rocky is tall' is coded as '44 55 11' and 'rocky is mountain' is coded as '33 55 11'. How is 'stand' coded in that language?

- Ans
- 1. 33
  - 2. 66
  - 3. 44
  - 4. 11

Q.3 Six letters A, B, C, E, F and G are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to A.



- Ans
- 1. F
  - 2. E
  - 3. C
  - 4. G

Q.4 The position(s) of how many letters will remain unchanged if all the letters in the word 'GRIMACE' are arranged in English alphabetical order?

- Ans
- 1. Two
  - 2. Zero
  - 3. One
  - 4. Three

Q.5 Select the option that can replace the question mark (?) in the following series.  
AH21, CJ18, EL15, GN12, ?

- Ans
- 1. J8
  - 2. IP9
  - 3. HR11
  - 4. HQ10

Q.6 'Ample' is related to 'Abundant' in the same way as 'Substantial' is related to '\_\_\_\_\_'.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- 1. Considerable
  - 2. Meager
  - 3. Scarce
  - 4. Venerable

Q.7 Select the number from among the given options that can replace the question mark (?) in the following series.  
30, 20, ?, 60, 140

- Ans
- 1. 30
  - 2. 35
  - 3. 40
  - 4. 25

Q.8 Which figure should replace the question mark (?) if the following series were to be continued?

A	L	U	A	
B L U E	A B E M	M A B T	U M T L	?
M	U	L	B	

Ans

1. 

B
L U M H
A

2. 

U
B T M A
L

3. 

U
A T M B
L

4. 

B
M T L H
A

Q.9 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans
- 1. LKF
  - 2. YXT
  - 3. NMI
  - 4. SRN

Q.10 Select the pair in which the numbers are related to each other in the same way as are the numbers in the given pairs. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

3 : 25

4 : 62

- Ans
- 1. 9 : 731
  - 2. 5 : 123
  - 3. 7 : 345
  - 4. 6 : 218

Q.11 Three of the following numbers are alike in a certain way and one is different. Pick the odd one out. (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1.  $31 - 5 = 160$
  - 2.  $27 - 9 = 243$
  - 3.  $21 - 4 = 89$
  - 4.  $13 - 8 = 109$

Q.12 Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

\_ X \_ F \_ \_ \_ X T \_ X \_

- Ans
- 1. FXXTFXT
  - 2. FTXTFFT
  - 3. XFTTAFX
  - 4. XTTFXFX

Q.13 In a certain code language, 'HUSBAND' is written as 'JVUDBPF' and 'SISTER' is written as 'UJUVFT'. How will 'BROTHER' be written in that language?

- Ans
- 1. DJTFPTV
  - 2. DTPVJFT
  - 3. TFVJTPD
  - 4. FJPVDTT

Q.14 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

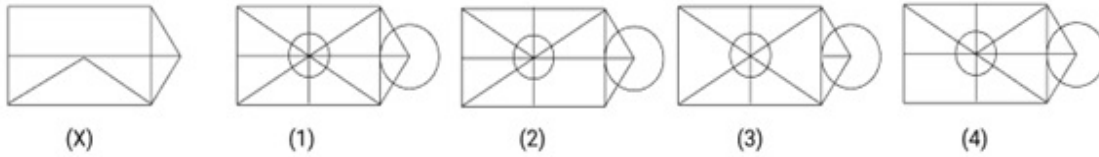
$$315 \times 15 - 93 + 16 \div 7 = ?$$

- Ans
- 1. 4
  - 2. 8
  - 3. 2
  - 4. 12

**Q.15** In a certain code language,  
 $X + Y$  means 'X is the father of Y',  
 $X - Y$  means 'X is the brother of Y',  
 $X \times Y$  means 'X is the sister of Y',  
 $X \div Y$  means 'X is the wife of Y'.  
 Based on the above, how is D related to H if ' $D \times E \div F + G - H$ '?

- Ans**
- 1. Sister
  - 2. Father's sister
  - 3. Mother's sister
  - 4. Mother's mother

**Q.16** Figure X is followed by four figures numbered (1), (2), (3), (4). Identify the figure among the four in which figure X is embedded (i.e. contains figure X in the same form).



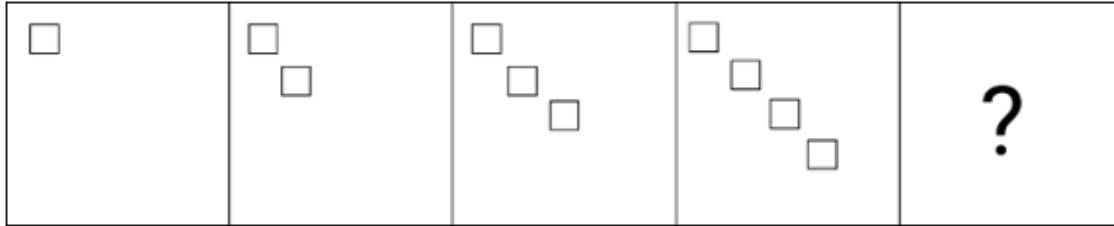
- Ans**
- 1. 1
  - 2. 3
  - 3. 2
  - 4. 4

**Q.17** Which of the following terms will replace the question mark (?) in the given series?  
 KES, MIQ, PMN, TQJ, YUE, ?

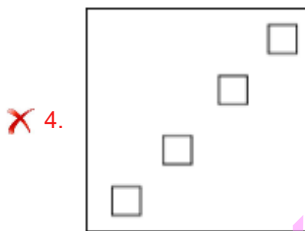
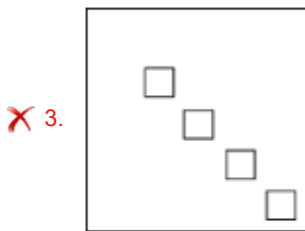
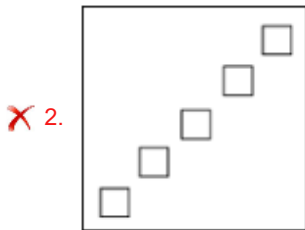
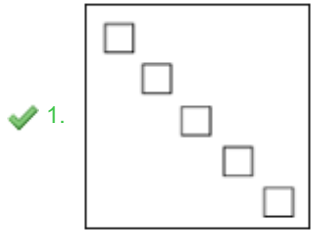
- Ans**
- 1. EXY
  - 2. FYX
  - 3. EYY
  - 4. EXZ

KD JOB UPDATES

Q.18 Identify the figure given in the options which when put in place of ? will logically complete the series.



Ans



Q.19 Select the set in which the numbers are related in the same way as are the numbers of the following set.

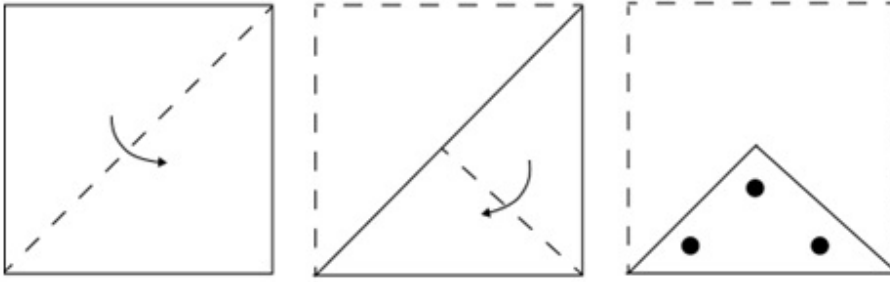
7 — 14 — 23

4 — 11 — 20

NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

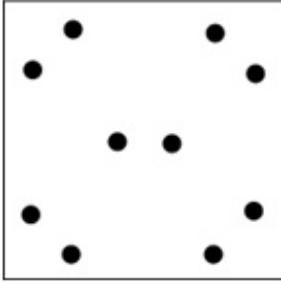
- Ans
- ✗ 1. 7 — 15 — 22
  - ✗ 2. 15 — 30 — 20
  - ✓ 3. 5 — 12 — 21
  - ✗ 4. 9 — 12 — 22

Q.20 A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last as shown. How would the paper look when unfolded?

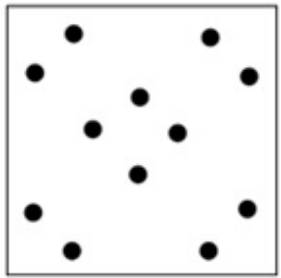


Ans

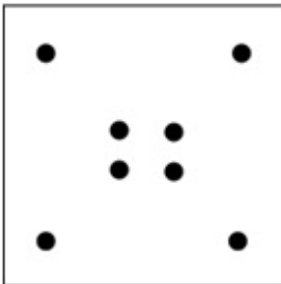
✗ 1.



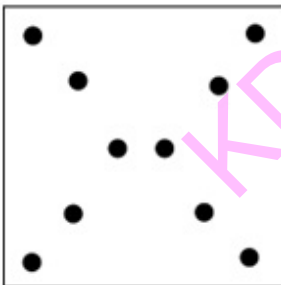
✓ 2.



✗ 3.



✗ 4.



Q.21 Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter series.

D \_ F D \_ F \_ F \_ D \_ F

Ans

✗ 1. D F F D D

✗ 2. F D D F F

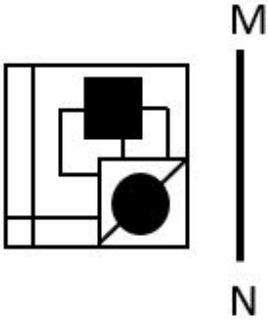
✗ 3. D F D D F

✓ 4. F F D F F

**Q.22** Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
 (27, 405, 3)  
 (23, 690, 6)

- Ans**
- 1. (14, 364, 7)
  - 2. (22, 616, 7)
  - 3. (16, 448, 7)
  - 4. (24, 600, 5)

**Q.23** Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



**Ans**

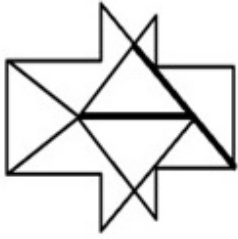
- 1.
- 2.
- 3.
- 4.

**Q.24** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
 Frivolous : Big :: Deride : ?

- Ans**
- 1. Jeer
  - 2. Detest
  - 3. Taunt
  - 4. Encourage



Q.25 How many triangles are there in the given figure?



- Ans
- 1. 7
  - 2. 6
  - 3. 9
  - 4. 8

Section : General Awareness

Q.1 Who among the following is the hero of the Sanskrit historical poem, the 'Ramacharita' written by Sandhyakar Nandi?

- Ans
- 1. Gopala
  - 2. Devapala
  - 3. Ramapala
  - 4. Dharmapala

Q.2 According to the Census of India 2011, which group of Union Territories recorded the highest sex ratio?

- Ans
- 1. Puducherry, Delhi, Andaman and Nicobar Islands
  - 2. Puducherry, Lakshadweep, Andaman and Nicobar Islands
  - 3. Chandigarh, Puducherry, Lakshadweep
  - 4. Chandigarh, Puducherry, Delhi

Q.3 Which of the following two quantities have the same dimensions?

- Ans
- 1. Work and torque
  - 2. Power and moment of inertia
  - 3. Work and angular displacement
  - 4. Power and radius of circular motion

Q.4 The Doctrine of Lapse was an annexation policy devised by which of the following Governor-Generals of India?

- Ans
- 1. Lord Wellesley
  - 2. Lord Dalhousie
  - 3. Lord Mayo
  - 4. Lord Canning

Q.5 Which of the following is a man-made ecosystem?

- Ans
- 1. Aquarium
  - 2. Dessert
  - 3. Forest
  - 4. Grassland

Q.6 Who among the following famous Indian women cricketers announced retirement in June 2022?

- Ans
- 1. Smriti Mandhana
  - 2. Jhulan Goswami
  - 3. Anjum Chopra
  - 4. Mithali Raj

Q.7 Which state government honoured Vani Jairam with the MS Subbulakshmi Award for 2019?

- Ans
- 1. Maharashtra
  - 2. Karnataka
  - 3. Odissa
  - 4. Tamil Nadu

Q.8 Which region in India receives less rainfall in summer, but heavy rainfall in winter season due to the retreating north easterly winds?

- Ans
- 1. Southern coastal region
  - 2. Western coastal region
  - 3. Northern coastal region
  - 4. Eastern coastal region

Q.9 Match the sports in List I with the sportsperson in List II who were in news for their sports achievement in 2022:

LIST I- Sports	LIST II-Sports man
A Lakshya Sen	i Boxing
B Rameshbabu Praggnanandhaa	ii Badminton
C Nikhat Zareen	iii Shooting
D Rudrankksh Patil	iv Chess

- Ans
- 1. A-iv, B-ii, C-i, D-iii
  - 2. A-iii, B-iv, C-i, D-ii
  - 3. A-i, B-iv, C-ii, D-iii
  - 4. A-ii, B-iv, C-i, D-iii

Q.10 Which of the following are the two basic categories of an ecosystem?

- Ans
- 1. Forest and Aquatic
  - 2. Terrestrial and Aquatic
  - 3. Lakes and Ponds
  - 4. Forest and Rivers

Q.11 For which of the following states was the Constitution (Scheduled Castes and Scheduled Tribes) Orders (Second Amendment) Bill, 2022, introduced in the Parliament?

- Ans
- 1. Odisha
  - 2. Bihar
  - 3. Uttar Pradesh
  - 4. Madhya Pradesh

Q.12 Which of the following features of the Indian Constitution was borrowed from Irish Constitution?

- Ans
- 1. Directive Principles of State Policy
  - 2. Concurrent List
  - 3. Fundamental Rights
  - 4. Rule of Law

Q.13 The Supreme Court of India comprises the Chief Justice and not more than \_\_\_\_\_ other Judges appointed by the President of India.

- Ans
- 1. 37
  - 2. 35
  - 3. 38
  - 4. 33

**Q.14** Ranjana Gauhar was awarded the Padma Shri Award (2003) for her contribution to which of the following Indian dance forms?

- Ans**
- 1. Kuchipudi
  - 2. Sattriya
  - 3. Odissi
  - 4. Manipuri

**Q.15** Who won the paralympic bronze medal in archery for India at Tokyo in 2020?

- Ans**
- 1. Atanu Das
  - 2. Pravin Jadhav
  - 3. Deepika Kumari
  - 4. Harvinder Singh

**Q.16** Which of the following statements is correct about the composition of the agriculture sector and employment in GDP post-independence?

- Ans**
- 1. The proportion of employment has declined significantly but not the share of the agriculture sector in GDP.
  - 2. The proportion of both the agriculture sector and employment in GDP has increased significantly.
  - 3. The proportion of both the agriculture sector and employment in GDP has declined significantly.
  - 4. The proportion of GDP contributed by the agricultural sector declined significantly but not the employment depending on the agriculture sector.

**Q.17** Which port is developed as a satellite port?

- Ans**
- 1. Mormugao
  - 2. Jawaharlal Nehru
  - 3. Haldia
  - 4. New Mangalore

**Q.18** Which polyatomic ionic compound is a white, crystalline powder used in fire extinguishers and to neutralise acids and bases?

- Ans**
- 1. Sodium Bisulphite
  - 2. Sodium Thiosulphate
  - 3. Sodium Chromate
  - 4. Sodium Bicarbonate

**Q.19** Chhath Puja is the main festival of which state?

- Ans**
- 1. Bihar
  - 2. Tamil Nadu
  - 3. Karnataka
  - 4. Assam

**Q.20** Vindhya Shakti was the founder of which of the following dynasties?

- Ans**
- 1. Pallava
  - 2. Maukhari
  - 3. Vakataka
  - 4. Chalukya

**Q.21** Which Indian singer wrote 'Raag Sarita'?

- Ans**
- 1. Kesarbai Kerkar
  - 2. Balasaheb Poonchwale
  - 3. Kumar Gandharva
  - 4. Chintaman Raghunath Vyas

Q.22 In which of the following areas did the Uprising of Khurda in 1817 take place?

- Ans
- 1. United Province
  - 2. Odisha
  - 3. Madras
  - 4. Bengal

Q.23 The central bank of India or Reserve Bank of India was created before Independence, in the year 1934. The recommendation to create a central bank was made by a commission called:

- Ans
- 1. Dr. Raja Chelliah Committee
  - 2. Kothari Commission
  - 3. Narasimham Committee
  - 4. Hilton Young Commission

Q.24 Sundari trees are found in which type of forests in India?

- Ans
- 1. Mangrove forests
  - 2. Tropical deciduous forests
  - 3. The thorn forests and scrubs
  - 4. Tropical evergreen forests

Q.25 Which team won the T20 cricket event, Syed Mushtaq Ali Trophy 2022-2023?

- Ans
- 1. Mumbai
  - 2. Punjab
  - 3. Vidarbha
  - 4. Himanchal Pradesh

Section : Quantitative Aptitude

Q.1 If  $p(\sqrt{3} + \cot 30^\circ) = \tan^3 60^\circ - 2\sin 60^\circ$ , then the value of p is:

- Ans
- 1. - 1
  - 2.  $2\sqrt{3}$
  - 3. 1
  - 4.  $\sqrt{3}$

Q.2 The given table shows the marks obtained by a student in class 9.

Subjects	Marks (out of 100)
Social Science	93
Science	90
Hindi	90
English	95
Mathematics	78

What is the percentage of marks obtained by the student?

- Ans
- 1. 89.2%
  - 2. 88.8%
  - 3. 90%
  - 4. 88%

Q.3 One-quarter of a circular pizza of radius 21 cm was removed from the whole pizza. What is the perimeter (in cm) of the remaining pizza? (Use  $\pi = \frac{22}{7}$ )

- Ans
- 1. 99
  - 2. 141
  - 3. 128
  - 4. 131

Q.4 A shopkeeper mixes two types of rice costing ₹250/5 kg and ₹280/5 kg in the ratio 7 : 8. Find the net cost of the resultant mixture (per kg).

- Ans
- 1. ₹32.50
  - 2. ₹53.20
  - 3. ₹52.30
  - 4. ₹25.30

Q.5 The following table shows the sale (in lakh rupees) of six commodities in a provision store from August 2012 to October 2012.

Month/Commodity	Dry Fruits	Tea	Pulses	Sugar	Flour	Rice
August	27	24	45	48	55	42
September	32	15	34	42	33	23
October	25	30	42	47	49	27

The total combined sale of dry fruits, sugar and rice for the period from August 2012 to October 2012 is what percentage (rounded off to the nearest whole number) of the total combined sale of tea, pulses and flour?

- Ans
- 1. 94%
  - 2. 98%
  - 3. 95%
  - 4. 96%

Q.6 If  $\frac{1}{1-\sin \theta} + \frac{1}{1+\sin \theta} = 4 \sec \theta$ , ( $0 < \theta < 90^\circ$ ), then the value of

$(\cot \theta + \operatorname{cosec} \theta)$  is:

- Ans
- 1.  $\sqrt{3}$
  - 2.  $\sqrt{6}$
  - 3.  $\sqrt{2}$
  - 4.  $\sqrt{5}$

Q.7 In an election between R and S, R gets 110% of the votes of S and beats S by 770 votes. If there were no invalid votes, then the total number of votes polled is:

- Ans
- 1. 17610
  - 2. 17160
  - 3. 16170
  - 4. 16710

Q.8 If  $321y72$  is a multiple of 6, where  $y$  is a digit, what is the least value of  $y$ ?

- Ans
- 1. 3
  - 2. 0
  - 3. 7
  - 4. 2

Q.9 An article is sold at a profit of 250%. What is the ratio of its cost price to selling price?

- Ans
- 1. 2 : 5
  - 2. 5 : 2
  - 3. 2 : 7
  - 4. 7 : 2

Q.10 The solution of the following equations is:

$$\begin{aligned}5x + 4y - 8z &= 1 \\7x - 9y + z &= -1 \\2x + 3y - 4z &= 1\end{aligned}$$

- Ans
- 1.  $x = -1, y = 1, z = 1$
  - 2.  $x = 1, y = 1, z = 1$
  - 3.  $x = 1, y = -1, z = 1$
  - 4.  $x = 1, y = 1, z = -1$

Q.11 Pranav borrows a sum of ₹6,23,305 at the rate of 10% per annum simple interest. At the end of the first year, he repays ₹16,390 towards return of principal amount borrowed. If Pranav clears all pending dues at the end of the second year, including interest payment that accrued during the first year, how much does he pay (in ₹) at the end of the second year?

- Ans
- 1. 7,25,903
  - 2. 7,29,025
  - 3. 7,38,700
  - 4. 7,29,937

Q.12 What is the height (in m) of a conical water tank having radius of 70 m and volume of  $46,200 \text{ m}^3$ ? (Take  $\pi = \frac{22}{7}$ )

- Ans
- 1. 27
  - 2. 9
  - 3. 18
  - 4. 54

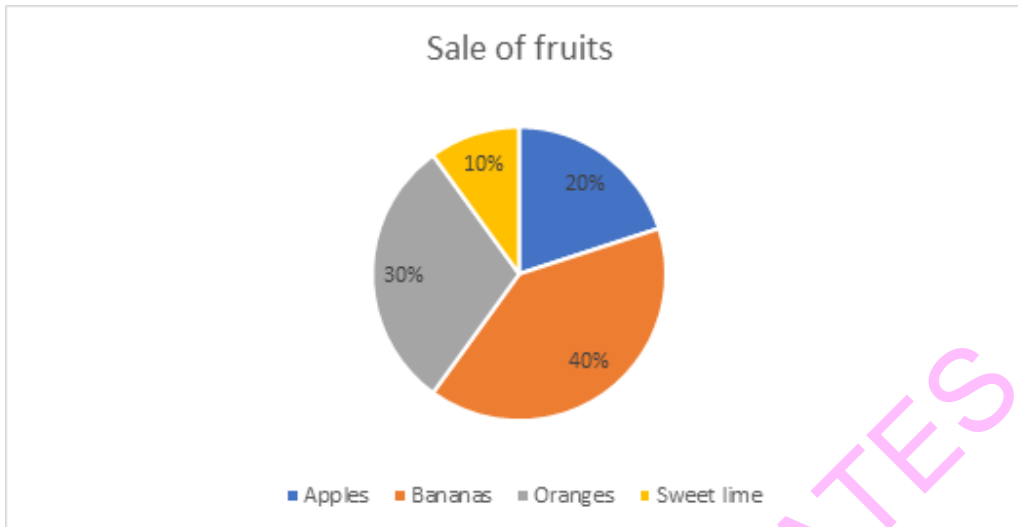
Q.13 If  $A:B = 6 : 8$  and  $B:C = 5 : 10$ , then  $A:B:C$  is:

- Ans
- 1. 3:4:8
  - 2. 1:3:4
  - 3. 4:3:2
  - 4. 1:2:4

Q.14 Simplify the following expression.  
 $[(70 - 60 \div 2 \text{ of } 6) + (20 - 10) \div 10] + 600 \div 25 \text{ of } (2 \times 3) \times (2 \text{ of } 3) + 2 \text{ of } 5.$

- Ans
- 1. 90
  - 2. 100
  - 3. 99
  - 4. 110

Q.15 The pie chart below shows the per cent sale of different fruits in a day for a shop. If the total number of fruits sold by a fruit seller in a day is 1200, what is the combined central angle in the pie chart for oranges and apples?



- Ans
- 1.  $220^\circ$
  - 2.  $90^\circ$
  - 3.  $180^\circ$
  - 4.  $160^\circ$

Q.16 A boat can travel 78 km upstream and back in a total of 32 hours. It can travel 15 km upstream and 52 km downstream in a total of 9 hours. How much distance will the boat cover in 12 hours in still water?

- Ans
- 1. 92 km
  - 2. 96 km
  - 3. 104 km
  - 4. 100 km

Q.17 A and B are centres of two circles with radii 2 cm and 1 cm respectively, where  $AB = 5$  cm. C is the centre of another circle of radius  $r$  cm, which touches each of the above two circles externally. If  $\angle ACB = 90^\circ$ , then the value of  $r$  is:

- Ans
- 1. 5 cm
  - 2. 2 cm
  - 3. 3 cm
  - 4. 4 cm

Q.18 Simplify the following expression.

$$\frac{(x - y)^3 + (y - z)^3 + (z - x)^3}{(x - y)(y - z)(z - x)}$$

- Ans
- 1. 3
  - 2. 1
  - 3. 0
  - 4. 2

Q.19 From a circle of radius 7 units, an arc length is cut by a chord of length 7 units. What is the arc length of the smaller portion (in units)?

Ans

1.  $\frac{8}{3}\pi$

2.  $\frac{7}{6}\pi$

3.  $\frac{7}{3}\pi$

4.  $\frac{7}{4}\pi$

Q.20 If the successive discount by 10%,15%, then the single equivalent rate of discount is:

Ans

1. 32.3%

2. 24.2%

3. 43.4%

4. 23.5%

Q.21 There are two pipes used to fill a tank and when operated together, they can fill the tank in 20 minutes. If one pipe can fill the tank two and a half times as quickly as the other, then the faster pipe alone can fill the tank in:

Ans

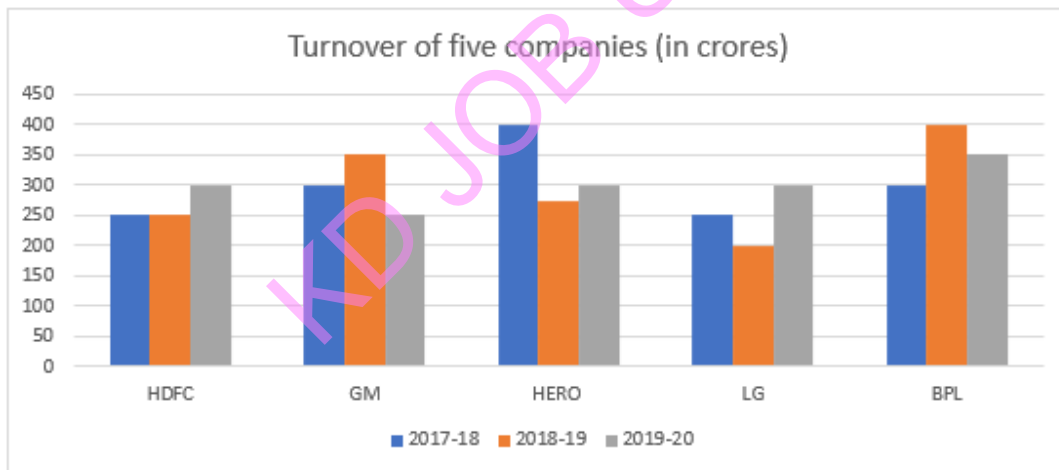
1. 30 min

2. 32 min

3. 34 min

4. 28 min

Q.22 The given bar graph shows the turnover of five companies (in crores).



What is the difference between the average sales turnover of all the companies put together between the years 2018-2019 and 2019-2020?

Ans

1. ₹5 crore

2. ₹2 crore

3. ₹6.5 crore

4. ₹3.5 crore



Q.23 If  $\Delta PQR \cong \Delta ABC$ ,  $AB = 6$  cm,  $\angle B = 50^\circ$  and  $\angle A = 70^\circ$ , then which of the following is true?

- Ans
- 1.  $QR = 6$  cm,  $\angle Q = 60^\circ$
  - 2.  $QR = 6$  cm,  $\angle R = 60^\circ$
  - 3.  $QP = 6$  cm,  $\angle P = 60^\circ$
  - 4.  $QP = 6$  cm,  $\angle R = 60^\circ$

Q.24 If  $\sin 31^\circ = \alpha$ , then the value of  $\cot 59^\circ$  is:

- Ans
- 1.  $\frac{\sqrt{1-\alpha^2}}{2\alpha}$
  - 2.  $\frac{\sqrt{1-\alpha^2}}{\alpha}$
  - 3.  $\frac{\sqrt{1+\alpha^2}}{\alpha}$
  - 4.  $\frac{\alpha}{\sqrt{1+\alpha^2}}$

Q.25 At a cafe, Rama bought drinks for her 7 friends at ₹240. Some of them wanted coffee, while others wanted black tea. A regular cup of coffee cost ₹40 and a regular cup of black tea cost ₹ 30. How many cups of tea did she purchase?

- Ans
- 1. 5
  - 2. 4
  - 3. 3
  - 4. 6

Section : English Comprehension

Q.1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

Satya is always great to his friends who helped him when he was in trouble.

- Ans
- 1. grateful
  - 2. thanked
  - 3. no substitution
  - 4. grateful

Q.2 Select the most appropriate ANTONYM of the given word.  
Epitome

- Ans
- 1. Exhort
  - 2. Expansion
  - 3. Lucid
  - 4. Precise

Q.3 The following sentence has been divided into four segments. Identify the segment that contains an error.  
Mr. Surya / have no interior / motive in offering / you support.

- Ans
- 1. Mr. Surya
  - 2. you support.
  - 3. motive in offering
  - 4. have no interior

**Q.4** Select the most appropriate option that can substitute the underlined segment in the given sentence.

The team always anticipate a bowling friendly pitch on their easy victory in the T20 matches.

- Ans**
- 1. pitch over their easy victory
  - 2. pitch for their easy victory
  - 3. pitch to their easy victory
  - 4. pitch of their easy victory

**Q.5** Select the option that expresses the given sentence in passive voice.  
The team will announce the winner tomorrow.

- Ans**
- 1. The team will announce tomorrow the winner.
  - 2. The winner will announce tomorrow by the team.
  - 3. The winner will be announced by the team tomorrow.
  - 4. Tomorrow will be announced the winner by the team.

**Q.6** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
By the end of / this month, he / will be working / for five years.

- Ans**
- 1. for five years
  - 2. will be working
  - 3. By the end of
  - 4. this month, he

**Q.7** Select the most appropriate option to fill in the blank.  
Kamal is not willing to purchase a house on the 12th floor of a sea-side apartment, as she is fearful of heights. She is suffering from \_\_\_\_\_.

- Ans**
- 1. heliophobia
  - 2. claustrophobia
  - 3. sociophobia
  - 4. acrophobia

**Q.8** Select the most appropriate option to fill in the blank.

The homophone for the word 'there' is \_\_\_\_\_.

- Ans**
- 1. that
  - 2. their
  - 3. those
  - 4. clear

**Q.9** Select the most appropriate meaning of the given idiom.  
Turned a deaf ear to

- Ans**
- 1. Disregarded
  - 2. At intervals
  - 3. By any means
  - 4. Rebuked

**Q.10** Select the most appropriate meaning of the given idiom.

A bad patch

- Ans**
- 1. A path that is untravelled
  - 2. A period of time when a person faces lots of troubles
  - 3. A person who takes a difficult path
  - 4. A dangerous road to walk on

Q.11 Select the most appropriate ANTONYM of the underlined word in the given sentence.  
An elephant is a large mammal.

- Ans
- 1. Bumper
  - 2. Gigantic
  - 3. Tiny
  - 4. Heroic

Q.12 Select the option that can be used as a one-word substitute for the given group of words.  
Cannot be corrected

- Ans
- 1. Illegible
  - 2. Incurable
  - 3. Incredible
  - 4. Ineligible

Q.13 Select the most appropriate ANTONYM of the word in bold to fill in the blank.  
The modern work is deliberately **ambiguous** (ambiguous).

- Ans
- 1. puzzling
  - 2. certain
  - 3. dubious
  - 4. vague

Q.14 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.  
A. Smoking in  
B. Your youth stunts  
C. The body and  
D. Clouds the brain

- Ans
- 1. ABCD
  - 2. CABD
  - 3. DCBA
  - 4. DBCA

Q.15 Select the most appropriate ANTONYM of the given word.  
Barbarity

- Ans
- 1. Callous
  - 2. Compromise
  - 3. Compassion
  - 4. Rivalry

Q.16 Select the word which means the same as the group of words given.

A written statement made under oath

- Ans
- 1. Testimony
  - 2. Affirmation
  - 3. Affidavit
  - 4. Statement

Q.17 Select the most appropriate ANTONYM of the word in bold.  
His mother never held a **grudge** against his father.

- Ans
- 1. rancour
  - 2. benevolence
  - 3. revulsion
  - 4. malevolence

**Q.18** In the following sentence, four words have been underlined, out of which one word is MISPELT. Select the option with the MISPELT word.

In spite of the dilemma that preveiled during the discussion sessions, the committee remained committed to finding an amicable solution to the issue.

- Ans**
- 1. amicable
  - 2. committee
  - 3. preveiled
  - 4. dilemma

**Q.19** Select the option that expresses the given sentence in passive voice.  
Don't let Dylan fool you!

- Ans**
- 1. Do not be fooled by Dylan.
  - 2. Do not ever be fooled by Dylan.
  - 3. Do not be fool by Dylan.
  - 4. Do not have been fooled by Dylan.

**Q.20** Select the INCORRECTLY spelt word.

- Ans**
- 1. Reinforcement
  - 2. Opportunity
  - 3. Atributes
  - 4. Motivational

#### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)\_\_\_\_\_ for ordinary humans. But for those who have (2)\_\_\_\_\_ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)\_\_\_\_\_ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)\_\_\_\_\_ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)\_\_\_\_\_. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

#### SubQuestion No : 21

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. problems
  - 2. aspects
  - 3. methods
  - 4. angles

#### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)\_\_\_\_\_ for ordinary humans. But for those who have (2)\_\_\_\_\_ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)\_\_\_\_\_ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)\_\_\_\_\_ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)\_\_\_\_\_. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

#### SubQuestion No : 22

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. large
  - 2. deep
  - 3. superficial
  - 4. depth

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)\_\_\_\_\_ for ordinary humans. But for those who have (2)\_\_\_\_\_ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)\_\_\_\_\_ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)\_\_\_\_\_ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)\_\_\_\_\_. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. tells by
  - 2. was said
  - 3. saying
  - 4. says

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)\_\_\_\_\_ for ordinary humans. But for those who have (2)\_\_\_\_\_ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)\_\_\_\_\_ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)\_\_\_\_\_ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)\_\_\_\_\_. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. confused
  - 2. reality
  - 3. unreal
  - 4. unimaginary

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)\_\_\_\_\_ for ordinary humans. But for those who have (2)\_\_\_\_\_ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)\_\_\_\_\_ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)\_\_\_\_\_ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)\_\_\_\_\_. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. is gained
  - 2. gains
  - 3. gained
  - 4. was gained

## Combined Graduate Level Examination 2024 Tier I

Exam Date	13/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.  
f h \_ h \_ g f \_ h g \_ h \_ f f \_ g \_ h \_ f

- Ans
- 1. g h f h g f f g
  - 2. g h f h g h f g
  - 3. g h f f g h f g
  - 4. g h f h g h h g

**Q.2** Which of the following terms will replace the question mark (?) in the given series?  
RLYV, PJWT, NHUR, ?, JDQN

- Ans
- 1. LFTP
  - 2. LGTP
  - 3. LGSP
  - 4. LFSP

**Q.3** In a certain code language,  
'A + B' means 'A is the mother of B',  
'A - B' means 'A is the father of B',  
'A \$ B' means 'A is the son of B',  
'A % B' means 'A is the sister of B',  
'A / B' means 'A is the wife of B' and  
'A \* B' means 'A is the husband of B'.

Which of the following means P is the Son's wife of T?

- i. T / B - K \* P + O
- ii. T + K \* P + B % O
- iii. K \* P + B % T + P
- iv. P + T \* K + B % O

- Ans
- 1. Only i
  - 2. Both i and ii
  - 3. iii and iv
  - 4. Only ii

**Q.4** Select the triad in which the numbers are related to each other in the same way as the numbers in the following triads.  
16-40-100  
8-20-50

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 12-30-120
  - 2. 18-50-110
  - 3. 22-74-185
  - 4. 24-60-150

**Q.5** Six symbols %, &, ?, +, \$ and @ are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the symbol on the face opposite to the one having @.



- Ans
- 1. \$
  - 2. &
  - 3. %
  - 4. ?

**Q.6** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

- Some Toys are Plastic.
- Some Plastic are Metal.
- No Metal is Chemical.

Conclusions:

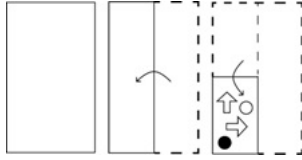
- (I) Some Chemicals are Plastic.
- (II) No Toy is a Chemical.

- Ans
- 1. Both conclusions (I) and (II) follow.
  - 2. Only conclusion (II) follows.
  - 3. Neither conclusion (I) nor (II) follows.
  - 4. Only conclusion (I) follows.

**Q.7** Select the triad in which the numbers are related to each other in the same way as are the numbers of the given triads. (148, 126, 104), (98, 76, 54)  
 (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans**
- ✓ 1. (157, 135, 113)
  - ✗ 2. (149, 137, 115)
  - ✗ 3. (128, 104, 82)
  - ✗ 4. (134, 102, 90)

**Q.8** The sequence of folding a paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



- Ans**
- ✗ 1.
  - ✓ 2.
  - ✗ 3.
  - ✗ 4.

**Q.9** The position of how many letters will remain unchanged if each of the letters in the word 'SIGHTED' is arranged in the English alphabetical order?

- Ans**
- ✗ 1. None
  - ✗ 2. One
  - ✗ 3. Three
  - ✓ 4. Two

**Q.10** Read the given statements and conclusions carefully. You have to take the given statements to be true if they seem to be at variance from commonly known facts. You have to decide which conclusion(s) logically follow(s) from the given statements.

**Statements:**  
 All fruit are sour.  
 Some sour are vegetables.  
 Some vegetables are green.  
**Conclusions:**  
 (I) All vegetables are sour.  
 (II) Some sour are green.

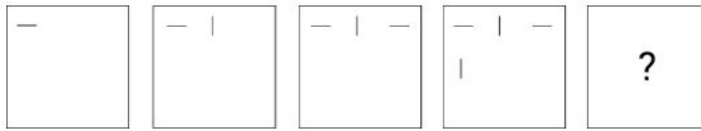
- Ans**
- ✗ 1. Only conclusion (II) follows
  - ✓ 2. Neither conclusion (I) nor (II) follows
  - ✗ 3. Only conclusion (I) follows
  - ✗ 4. Both conclusions (I) and (II) follow

**Q.11** What should come in place of the question mark (?) in the given series?

9 17 33 65 129 ?

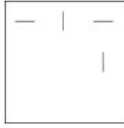
- Ans**
- ✗ 1. 259
  - ✗ 2. 254
  - ✓ 3. 257
  - ✗ 4. 258

Q.12 Select the figure from among the given options that can replace the question mark (?) in the following series.

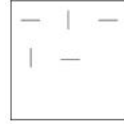


Ans

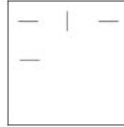
✗ 1.



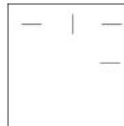
✓ 2.



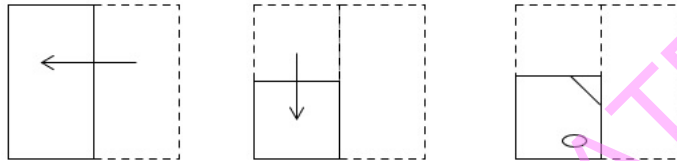
✗ 3.



✗ 4.

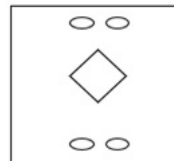


Q.13 A paper is folded and cut as shown below. How will it appear when unfolded?

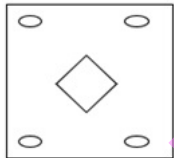


Ans

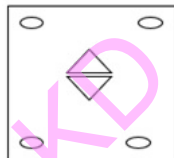
✓ 1.



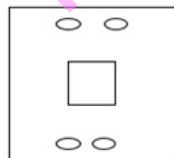
✗ 2.



✗ 3.



✗ 4.



Q.14 In a certain code language, 'RETAINED' is written as 'ENIATERD' and 'MATURITY' is written as 'TIRUTAMY'. How will 'FIREWALL' be written in that language?

Ans

✗ 1. LAWEFIFR

✓ 2. LAWERIFL

✗ 3. FLLAWERI

✗ 4. FLIREWAL

Q.15 In a certain code language, 'GLOBAL' is written as '221714272817', 'FOREST' is written as '23141124109', how will 'IMPACT' be written in that language?

Ans

✗ 1. 20161327259

✓ 2. 20161328269

✗ 3. 18141126247

✗ 4. 20161226259



Q.16 Three of the following four number-pairs are alike in a certain way and thus form a group. Which number-pair does NOT belong to that group?

(NOTE: The relation should be found without breaking down the numbers into its constituent digits)

Ans  1. 83, 97

2. 73, 79

3. 61, 71

4. 31, 41

Q.17 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$107 + 2028 \times 6 - 427 \div 7 = ?$$

Ans  1. 2758

2. 2268

3. 2785

4. 2578

Q.18 Based on the position in the English alphabetical order, three of the following letter-clusters are alike in some manner and one is different. Select the odd letter-cluster.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

Ans  1. SVXZ

2. EHJK

3. YBDE

4. TWYZ

Q.19 'Vacant' is related to 'Empty' in the same way as 'Crowd' is related to '\_\_\_\_\_'.

Ans  1. Throes

2. Loner

3. Throng

4. Disband

Q.20 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

READER : ERZWRE :: SERIAL : ESIRLA :: JINGLE : ?

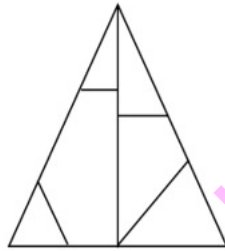
Ans  1. IJGNEL

2. JIMTEL

3. JIGNEL

4. IJMTEL

Q.21 What is the number of triangles in the following figure?



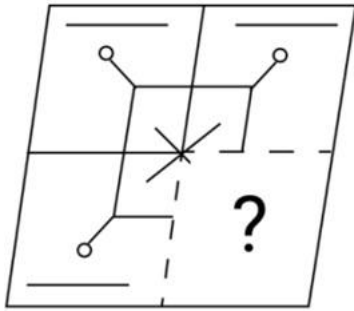
Ans  1. 9

2. 8

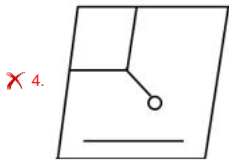
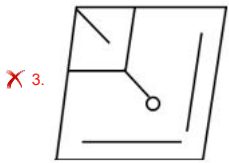
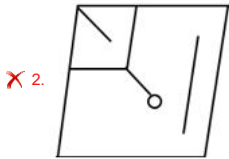
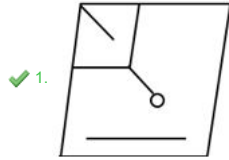
3. 6

4. 7

Q.22 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

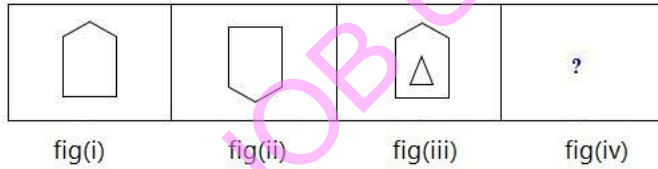


Ans

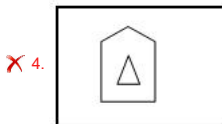
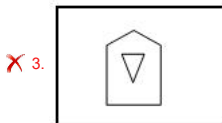
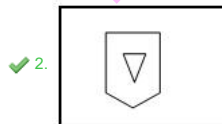
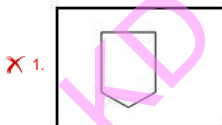


Q.23 Select the option that is related to the third figure in the same way as the second figure is related to the first figure. Follow the analogy-

Figure 1 : Figure 2 :: Figure 3 : ?



Ans



Q.24 What will come in place of the question mark (?) in the following equation, if 'x' is replaced by '+', '+' is replaced by 'x', '+' is replaced by 'x', '+' is replaced by 'x' and '-' remains unchanged?

$42 \times 3 \div 4 + 9 - 17 = ?$

- Ans
- ✗ 1. 23
  - ✓ 2. 33
  - ✗ 3. 29
  - ✗ 4. 30

Q.25 16 is related to 30 following a certain logic. Following the same logic, 81 is related to 110. To which of the following is 49 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 64
  - 2. 60
  - 3. 72
  - 4. 90

Section : General Awareness

Q.1 After the fall of the Guptas, different kingdoms emerged in various parts of India. Among them, the Maukharis emerged in which of the following areas?

- Ans
- 1. Thanesar
  - 2. Kunnur
  - 3. Valabhi
  - 4. Kannauj

Q.2 Which of the following nations won the ICC World Test Championship, defeating India, in 2023?

- Ans
- 1. New Zealand
  - 2. Australia
  - 3. South Africa
  - 4. England

Q.3 Presently, which of the following countries is NOT a beneficiary of India's Duty-Free Tariff Preference (DFTP) Scheme?

- Ans
- 1. Rwanda
  - 2. Burundi
  - 3. Myanmar
  - 4. Angola

Q.4 Which of the following Articles deals with the composition of the Rajya Sabha?

- Ans
- 1. Article 76
  - 2. Article 80
  - 3. Article 84
  - 4. Article 92

Q.5 The birth anniversary of Mahatma Gandhi is celebrated as the national festival of India. In which of the following years was Gandhi ji born?

- Ans
- 1. 1885
  - 2. 1869
  - 3. 1890
  - 4. 1877

Q.6 What kind of phyllotaxy was examined in the Guava plant?

- Ans
- 1. Superimposed
  - 2. Whorled
  - 3. Alternate
  - 4. Opposite

Q.7 The Nandi Award for Best Male Playback Singer was instituted by which state in the year 1977?

- Ans
- 1. Gujarat
  - 2. Andhra Pradesh
  - 3. Tripura
  - 4. Maharashtra

Q.8 Indian Olympic Association was established in which of the following years?

- Ans
- 1. 1927
  - 2. 1931
  - 3. 1933
  - 4. 1929

Q.9 Which of the following is a public sector industry?

- Ans
- 1. BHEL
  - 2. Reliance
  - 3. Tata
  - 4. Adani

Q.10 Which of following is NOT a device of parliamentary proceedings?

- Ans
- 1. Half-an-hour discussion
  - 2. Zero-hour discussion
  - 3. Two-hour (short) discussion
  - 4. Full-day discussion

Q.11 Which of the following rivers marks the eastern-most boundary of the Himalayas?

- Ans
- 1. Kali
  - 2. Teesta
  - 3. Satluj
  - 4. Brahmaputra

Q.12 What is the empirically fitted relationship between the rate of change of money, wage, and rate of unemployment known as?

- Ans
- 1. Friedman's model
  - 2. Keynesian model
  - 3. Baumol hypothesis
  - 4. Phillips curve

Q.13 Which of the following is India's national academy of dance?

- Ans
- 1. Lalit Kala Akademi
  - 2. Centre for Cultural Resources and Training
  - 3. Centre for Indian Classical Dances
  - 4. Sangeet Natak Akademi

Q.14 Padma Bhushan awardee, Ustad Sabri Khan played which of the following musical instruments?

- Ans
- 1. Sarod
  - 2. Santoor
  - 3. Tabla
  - 4. Sarangi

Q.15 Transition elements are the elements that are found in Groups 3-12 of the modern periodic table, that constitute the \_\_\_\_\_.

- Ans
- 1. d-block
  - 2. s-block
  - 3. p-block
  - 4. f-block

Q.16 A small object is placed on the focus on the left side of a convex lens. Where will be the image formed?

- Ans
- 1. At the centre on the right side of the lens.
  - 2. At infinity on the left side of the lens.
  - 3. At infinity on the right side of the lens.
  - 4. At the focus on the right side of the lens.

Q.17 One of the greatest of Chola ruler Rajaraja I ruled from 985 AD to \_\_\_\_\_.

- Ans
- 1. 1015 AD
  - 2. 1017 AD
  - 3. 1014 AD
  - 4. 1018 AD

Q.18 Who asked James Rennel to prepare the map of Hindustan?

- Ans
- 1. Lord Ripen
  - 2. Warren Hastings
  - 3. Lord Dalhousie
  - 4. Robert Clive

Q.19 Who among the following is appointed as the new Chairman of Pension Fund Regulatory and Development Authority (PFRDA) in March 2023?

- Ans
- 1. Supratim Bandopadhyay
  - 2. Shasikanta Das
  - 3. Mamta Shankar
  - 4. Deepak Mohanty

Q.20 Indian National Army was formed in which of the following countries?

- Ans
- 1. Singapore
  - 2. Germany
  - 3. London
  - 4. Japan

Q.21 Match the following neighbouring countries with their official languages correctly.

Country name	Official Languages
1. Afghanistan	a. Dzongkha
2. Bhutan	b. Burmese
3. Pakistan	c. Dari
4. Myanmar	d. Urdu

- Ans
- 1. 1-c, 2-a, 3-b, 4-d
  - 2. 1-c, 2-a, 3-d, 4-b
  - 3. 1-c, 2-d, 3-a, 4-b
  - 4. 1-a, 2-c, 3-d, 4-b

Q.22 Which Article in the fundamental duty applies, when a construction worker takes his 8-year son to the site rather than sending him to school?

- Ans
- 1. Article 51A (h)
  - 2. Article 51A (k)
  - 3. Article 51A (j)
  - 4. Article 51A (i)

Q.23 Exfoliation is a form of \_\_\_\_\_.

- Ans
- 1. physical weathering
  - 2. chemical weathering
  - 3. mass wasting
  - 4. biochemical weathering

Q.24 Which Bill was passed by the Parliament, in July 2021, to help in the availability of working capital for the micro, small and medium enterprises sector?

- Ans
- 1. The Essential Commodities (Amendment) Bill, 2020
  - 2. The Minerals Laws (Amendment) Bill, 2020
  - 3. The Factoring Regulation (Amendment) Bill, 2021
  - 4. The Insolvency and Bankruptcy Code (Amendment) Bill, 2021

Q.25 Identify the structural formula for magnesium hydroxide.

- Ans
- 1. MgOH
  - 2. MgO<sub>2</sub>
  - 3. Mg<sub>2</sub>H<sub>2</sub>
  - 4. Mg(OH)<sub>2</sub>

Section : Quantitative Aptitude

Q.1 The following table indicates the number of students studying in three subjects in four colleges.

Subjects	Colleges			
	W	X	Y	Z
Physics	420	435	412	285
Chemistry	380	340	315	420
Mathematics	256	310	295	345

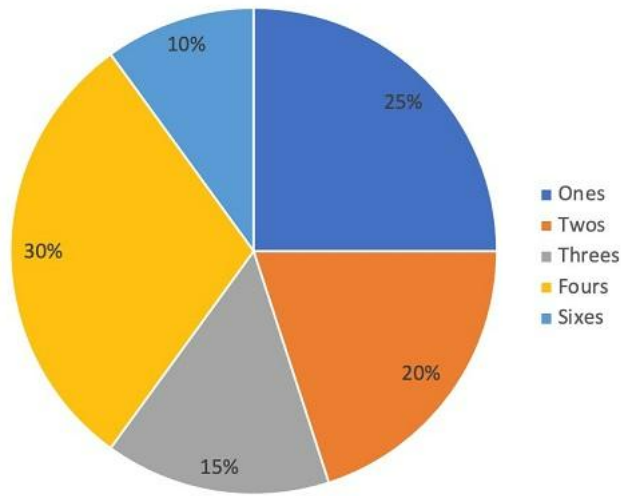
What is the ratio of the total number of students studying in the Physics to that of studying in Mathematics in all four colleges taken together?

- Ans
- 1. 781 : 585
  - 2. 775 : 601
  - 3. 576 : 731
  - 4. 776 : 603

Q.2 A chord of the larger among two concentric circles is of length 20 cm and it is tangent to the smaller circle. What is the area (in cm<sup>2</sup>) of the annular portion between the two circles?

- Ans
- 1. 100π
  - 2. 164π
  - 3. 122π
  - 4. 175π

Q.3 The given pie-chart shows the percentage distribution of runs scored by a batsman in a test innings. Study the chart and answer the question that follows.



If the batsman has scored a total of 440 runs, how many runs did he score by hitting fours?

- Ans
- 1. 88
  - 2. 172
  - 3. 224
  - 4. 132

Q.4 Let  $a + b = 1$ , then the value of  $\left(\frac{1}{a^2} + \frac{1}{b^2} + \frac{2}{ab}\right)$  is:

- Ans
- 1.  $\frac{1}{a^2b^2}$
  - 2.  $\frac{1}{ab}$
  - 3.  $\frac{1}{a^2b}$
  - 4.  $\frac{1}{ab^2}$

Q.5 What is the volume in cubic units of a cylinder with a height equal to the diameter and a radius is 4 units?

- Ans
- 1.  $128\pi$
  - 2.  $\frac{64\pi}{3}$
  - 3.  $32\pi$
  - 4.  $\frac{32\pi}{3}$

Q.6 A trader owes a merchant ₹9,810 due in 1 year, but the trader wants to settle the account after 6 months. If the rate of simple interest is 9% per annum, how much cash (in ₹) should he pay?

- Ans
- 1. 9,550
  - 2. 9,450
  - 3. 9,540
  - 4. 9,405

Q.7 If  $\frac{\tan(x)}{\sec(x)} = \frac{1}{2}$ , then the value of  $(\sin(x) + \cos(x))^2$  is \_\_\_\_.

- Ans
- 1.  $\frac{2+\sqrt{3}}{3}$
  - 2.  $\frac{2+\sqrt{3}}{2}$
  - 3.  $\frac{2-\sqrt{3}}{2}$
  - 4.  $\frac{2-\sqrt{3}}{3}$

Q.8 A circle's centre is connected to its 50 cm long chord by a perpendicular that is 21 cm long. Find the circle's radius.

- Ans
- 1.  $\sqrt{1065}$  cm
  - 2.  $\sqrt{1068}$  cm
  - 3.  $\sqrt{1064}$  cm
  - 4.  $\sqrt{1066}$  cm

Q.9 The radius of the circle is 8 cm. The distance of a point lying outside the circle from the centre is 17 cm. The length of the tangent drawn from the outside point to the circle is:

- Ans
- 1. 18 cm
  - 2. 15 cm
  - 3. 16 cm
  - 4. 19 cm

Q.10

Simplify  $\frac{25a^2 - 10ab - 48b^2}{5a + 6b} \times (5a + 8b)$

- Ans
- 1.  $25a^2 - 64b^2$
  - 2.  $(5a - 8b)^2$
  - 3.  $(5a + 8b)^2$
  - 4.  $25a^2 - 36b^2$

Q.11 If  $\tan A = \frac{5}{7}$ , then find the value of  $\frac{7\sin A - 3\cos A}{7\sin A + 3\cos A} + 4$ .

- Ans
- 1.  $4\frac{1}{4}$
  - 2.  $3\frac{5}{7}$
  - 3.  $3\frac{1}{5}$
  - 4.  $7\frac{1}{3}$

Q.12 The given table shows the number of runs scored in IPL matches by four Indian batsmen in a particular year.

Player	Runs scored
P	800
Q	620
R	1200
S	650

What is the total number of runs scored by all four batsmen?

- Ans
- 1. 3270
  - 2. 2900
  - 3. 3760
  - 4. 3300

Q.13 2 varieties of tea powders worth ₹250/kg and ₹300/kg are mixed with a third variety of tea powder in the ratio 1 : 1 : 2. If the mixture is worth ₹350/kg, find the price of the third variety tea powder.

- Ans
- 1. ₹450/kg
  - 2. ₹400/kg
  - 3. ₹425/kg
  - 4. ₹500/kg

Q.14 If  $\sin B = \frac{15}{17}$ , what is the value of  $\cos B(\sec B - \tan B)$ ? Given that  $0 < B < \frac{\pi}{2}$

- Ans
- 1.  $\frac{1}{16}$
  - 2.  $\frac{2}{15}$
  - 3.  $\frac{8}{15}$
  - 4.  $\frac{2}{17}$

Q.15 A discount series of 10% and 16% on an invoice is the same as a single discount of:

- Ans
- 1. 24.4%
  - 2. 22.4%
  - 3. 21.4%
  - 4. 23.4%

Q.16 ABC is an equilateral triangle. P, Q and R are the mid-points of sides AB, BC and CA, respectively. If the length of the side of the triangle ABC is 11 cm, then the area (in  $\text{cm}^2$ ) of  $\Delta PQR$  is:

- Ans
- 1.  $\frac{21\sqrt{3}}{16}$
  - 2.  $\frac{11\sqrt{3}}{16}$
  - 3.  $\frac{121\sqrt{3}}{16}$
  - 4.  $\frac{111\sqrt{3}}{16}$

Q.17 P and Q start running in opposite directions on a circular track from the same point. If their speeds are 10 m/s and 8 m/s, respectively, then after what time will they meet if the length of the track is 1620 m?

- Ans
- 1. 110 seconds
  - 2. 70 seconds
  - 3. 120 seconds
  - 4. 90 seconds

Q.18 Simplify

$$1\frac{1}{3} + 1\frac{3}{4} \times 1\frac{2}{3} \div 3\frac{1}{2}$$

- Ans
- 1.  $2\frac{1}{3}$
  - 2.  $2\frac{1}{6}$
  - 3.  $2\frac{1}{5}$
  - 4.  $3\frac{1}{4}$

Q.19 Two different quantities of the same solution having ingredients A and B are stored in two different containers. In the first container, there are 252 litre of A and 441 litre of B. In the second container, the total quantity of the solution was 1188 litre. How much of the solution in the second container was made up of ingredient B?

- Ans
- 1. 765 litre
  - 2. 756 litre
  - 3. 752 litre
  - 4. 760 litre

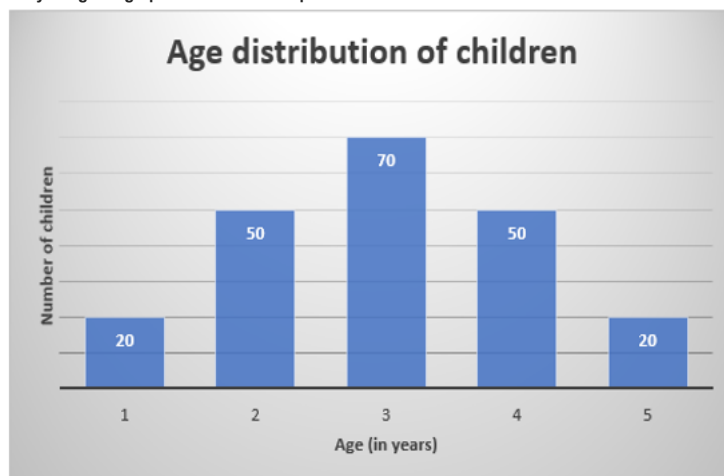
Q.20 P and Q are two fixed points 10 cm apart, and R is a point on PQ such that PR = 6 cm. By what percentage is the length of QR decreased when the length of PR is increased by 5%?

- Ans
- 1. 8.5%
  - 2. 7.5%
  - 3. 7%
  - 4. 8%

Q.21 A pipe can fill an empty tank in 5 minutes and another pipe can empty it in 6 minutes. If both pipes are opened simultaneously, how long will it take to fill the tank?

- Ans
- 1. 33 min
  - 2. 30 min
  - 3. 35 min
  - 4. 25 min

Q.22 The given graph represents the data on the ages of various children. Study the given graph and answer the question that follows.



What is the difference between the mean and mode of the ages?

- Ans
- 1. 2
  - 2. 0.5
  - 3. 1
  - 4. 0



Q.23 Ramesh sells rice at ₹36 per kg, which he purchased for ₹30 per kg. Moreover, he gives only 800 g of rice instead of 1 kg while selling. Find the actual profit percentage of Ramesh.

- Ans
- 1. 46%
  - 2. 50%
  - 3. 48%
  - 4. 52%

Q.24 Which digits should come in the place of x and y, respectively, if the number 62684xy is divisible by both 8 and 5?

- Ans
- 1. 5 and 0
  - 2. 4 and 0
  - 3. 2 and 0
  - 4. 0 and 5

Q.25 For which of the following values of a and b do the given equations, have NO solution?

$$x - ay = 2 - a$$
$$(1 - a)x + 6y = a + b$$

- Ans
- 1.  $a = -3, b \neq 1$
  - 2.  $a = 3, b \neq -1$
  - 3.  $a = -3, b \neq -1$
  - 4.  $a = 3, b \neq 1$

Section : English Comprehension

Q.1 Parts of the following sentence have been given as options. Select the option that contains an error.  
I have the hundred reasons to not attend the meeting tomorrow.

- Ans
- 1. I have the hundred reasons
  - 2. the meeting
  - 3. tomorrow
  - 4. to not attend

Q.2 Select the most appropriate ANTONYM of the word in brackets to fill in the blank.  
Sheila \_\_\_\_\_ (failed) all her classes.

- Ans
- 1. passed
  - 2. flunked
  - 3. fizzled
  - 4. flopped

Q.3 Select the most appropriate meaning of the underlined idiom.

All his friends admired him because he was a straight shooter.

- Ans
- 1. Excellent shooter
  - 2. Complicated and confusing person
  - 3. Miserly and pessimistic individual
  - 4. A thoroughly upright straightforward person

Q.4 Select the option that can be used as a one-word substitute for the given group of words.  
a large, flat area surrounded by seats used for sports or entertainment

- Ans
- 1. Senate
  - 2. Arena
  - 3. Department
  - 4. Garden

Q.5 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
After I retire, I started a second career / as a writer and published several books / which allowed me to share my stories / and insights with a wider audience.

- Ans
- 1. and insights with a wider audience
  - 2. After I retire, I started a second career
  - 3. as a writer and published several books
  - 4. which allowed me to share my stories

Q.6 Select the most appropriate synonym of the given word.  
Celebrate

- Ans
- 1. Daunt
  - 2. Rejoice
  - 3. Bitch
  - 4. Assure

Q.7 Select the most appropriate homophone to fill in the blank.

The \_\_\_\_\_ was decorated with candles and chocolates everywhere.

- Ans
- 1. flour
  - 2. flower
  - 3. floor
  - 4. flor

Q.8 Select the INCORRECTLY spelt word

- Ans
- 1. Tangiable
  - 2. Terracotta
  - 3. Tertial
  - 4. Terracide

Q.9 Select the INCORRECTLY spelt word.

- Ans
- 1. Occurrence
  - 2. Harassment
  - 3. Supersede
  - 4. Exaggerate

Q.10 Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.

She \_\_\_\_\_ the target by an inch and lost the gold medal. [hit]

- Ans
- 1. touched
  - 2. bashed
  - 3. missed
  - 4. cleaned

Q.11 Select the option that can be used as a one-word substitute for the given group of words.  
A period of ten years

- Ans
- 1. Century
  - 2. Decade
  - 3. Biennium
  - 4. lustrum

Q.12 Select the most appropriate meaning of the underlined idiom.  
My uncle lives in New York, so I only see him once in a blue moon.

- Ans
- 1. Not very often
  - 2. Monthly
  - 3. Weekly
  - 4. Very often

Q.13 Select the option that can be used as a one-word substitute for the given group of words.  
One who eats a lot

- Ans
- 1. Chauffeur
  - 2. Steward
  - 3. Glutton
  - 4. Chef

Q.14 Select the most appropriate ANTONYM of the underlined word.

I was happy to know that Sheila passed her final exams.

- Ans
- 1. Sad
  - 2. Joyful
  - 3. upbeat
  - 4. Excited

Q.15 Select the most appropriate synonym for the underlined word in the given sentence.  
One of Ram's leisure activities is tennis.

- Ans
- 1. Main
  - 2. Lead
  - 3. Languish
  - 4. Recreation

Q.16 Select the most appropriate option to substitute the underlined word segment in the given sentence.  
The wedding was put on until January.

- Ans
- 1. put in
  - 2. put off
  - 3. put down
  - 4. put up

Q.17 Select the option that expresses the given sentence in passive voice.  
The children have made the box.

- Ans
- 1. The box is being made by the children.
  - 2. Children had made the box.
  - 3. The box had been made by the children.
  - 4. The box has been made by the children.

Q.18 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. The upper part of the river
- B. Continuous rain on
- C. Week, there had been
- D. During the previous

- Ans
- 1. DBAC
  - 2. DCBA
  - 3. ADCB
  - 4. ABCD

Q.19 Select the option that expresses the given sentence in passive voice.  
They are organising a concert for charity.

- Ans
- 1. A concert is being organised by them for charity.
  - 2. They are organising a charity concert.
  - 3. They are being organised a concert for charity.
  - 4. A concert for charity is organising by them.

**Q.20** Given below are four jumbled sentences. Select the option that gives their correct logical sequence.

- A. When we connect this design with a wire, electricity flows.
- B. These metal strips were put in a sulphuric acid solution.
- C. He made two strips of different metals.
- D. Alessandro Volta discovered electric battery.

- Ans**
- 1. CBDA
  - 2. DCBA
  - 3. BCDA
  - 4. ACDB

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Earthquake is the (1) \_\_\_\_\_ breaking and displacement of substantial portions of the earth's outer rocky crust. During an earthquake, rock disturbances can cause rivers to change their flow. Landslides (2) \_\_\_\_\_ by earthquakes can cause significant destruction and loss of life. Tsunamis are a (3) \_\_\_\_\_ of damaging waves caused by large earthquakes that occur under the ocean. Earthquakes rarely directly kill anyone. Many (4) \_\_\_\_\_ and injuries are caused by falling debris and the fall of structures. The (5) \_\_\_\_\_ of an earthquake relies on how much and how far rock cracks and shifts.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. innovative
  - 2. expansive
  - 3. deliberate
  - 4. abrupt

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Earthquake is the (1) \_\_\_\_\_ breaking and displacement of substantial portions of the earth's outer rocky crust. During an earthquake, rock disturbances can cause rivers to change their flow. Landslides (2) \_\_\_\_\_ by earthquakes can cause significant destruction and loss of life. Tsunamis are a (3) \_\_\_\_\_ of damaging waves caused by large earthquakes that occur under the ocean. Earthquakes rarely directly kill anyone. Many (4) \_\_\_\_\_ and injuries are caused by falling debris and the fall of structures. The (5) \_\_\_\_\_ of an earthquake relies on how much and how far rock cracks and shifts.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. triggered
  - 2. subdued
  - 3. blocked
  - 4. prevented

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Earthquake is the (1) \_\_\_\_\_ breaking and displacement of substantial portions of the earth's outer rocky crust. During an earthquake, rock disturbances can cause rivers to change their flow. Landslides (2) \_\_\_\_\_ by earthquakes can cause significant destruction and loss of life. Tsunamis are a (3) \_\_\_\_\_ of damaging waves caused by large earthquakes that occur under the ocean. Earthquakes rarely directly kill anyone. Many (4) \_\_\_\_\_ and injuries are caused by falling debris and the fall of structures. The (5) \_\_\_\_\_ of an earthquake relies on how much and how far rock cracks and shifts.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. interruption
  - 2. arrest
  - 3. disorder
  - 4. succession

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Earthquake is the (1) \_\_\_\_\_ breaking and displacement of substantial portions of the earth's outer rocky crust. During an earthquake, rock disturbances can cause rivers to change their flow. Landslides (2) \_\_\_\_\_ by earthquakes can cause significant destruction and loss of life. Tsunamis are a (3) \_\_\_\_\_ of damaging waves caused by large earthquakes that occur under the ocean. Earthquakes rarely directly kill anyone. Many (4) \_\_\_\_\_ and injuries are caused by falling debris and the fall of structures. The (5) \_\_\_\_\_ of an earthquake relies on how much and how far rock cracks and shifts.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. survival
  - 2. fatalities
  - 3. durability
  - 4. viability

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Earthquake is the (1) \_\_\_\_\_ breaking and displacement of substantial portions of the earth's outer rocky crust. During an earthquake, rock disturbances can cause rivers to change their flow. Landslides (2) \_\_\_\_\_ by earthquakes can cause significant destruction and loss of life. Tsunamis are a (3) \_\_\_\_\_ of damaging waves caused by large earthquakes that occur under the ocean. Earthquakes rarely directly kill anyone. Many (4) \_\_\_\_\_ and injuries are caused by falling debris and the fall of structures. The (5) \_\_\_\_\_ of an earthquake relies on how much and how far rock cracks and shifts.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. depth
  - 2. corpse
  - 3. discipline
  - 4. magnitude

## Combined Graduate Level Examination 2024 Tier I

Exam Date	13/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

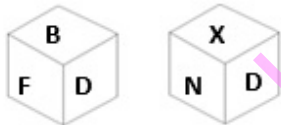
**Q.1** Each of the letters in the word 'REDUCTION' are arranged in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is the third from the left end and the fourth from the left end in the group of letters thus formed?

- Ans
- 1. Two
  - 2. One
  - 3. Three
  - 4. Four

**Q.2** In a certain code language,  
'A ? B' means 'A is the mother of B',  
'A ! B' means 'A is the wife of B',  
'A & B' means 'A is the brother of B' and  
'A x B' means 'A is the father of B'.  
Which of the following means that Z is the wife's father's mother of L?

- Ans
- 1. Z & B ! T x J ? L
  - 2. Z ! B x T ? J & L
  - 3. Z ? B x T & J ! L
  - 4. Z ? B ! T & J x L

**Q.3** Six letters B, F, D, X, N and A are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to D.

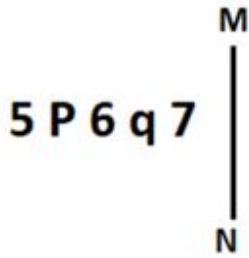


- Ans
- 1. A
  - 2. N
  - 3. B
  - 4. F

**Q.4** The following contains two pairs of words which are related to each other in a certain way. Three of the following four word-pairs are alike as these have the same relationship and thus form a group. Which word-pair does NOT belong to that group? (The words must be considered as meaningful English words and must not be grouped based on the number of letters/number of consonants/vowels in the word)

- Ans
- 1. Joy - Peace
  - 2. Misery - Happiness
  - 3. Problem - Concern
  - 4. Worry - Fear

Q.5 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

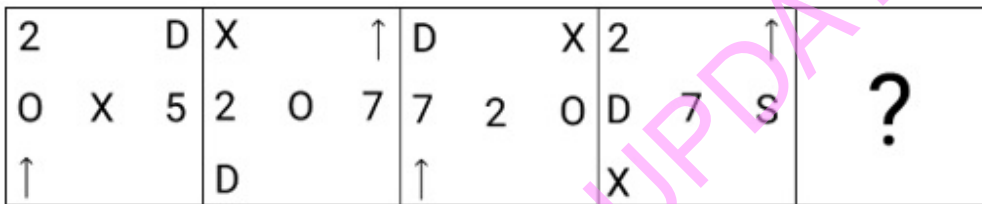


- Ans
- 1. 7 p 6 q 5
  - 2. 7 p 6 P 7
  - 3. 7 p 6 9 5
  - 4. 7 p 6 9 7

Q.6 Which of the following terms will replace the question mark (?) in the given series?  
BHVC, ZLTG, XPRK, ?, TXNS

- Ans
- 1. VTPO
  - 2. VTPN
  - 3. VPTN
  - 4. VPTO

Q.7 Which figure should replace the question mark (?) if the following series were to be continued?



- Ans
- 1. 

↑		X
7	S	D
2		
  - 2. 

X		2
S	D	7
↑		
  - 3. 

↑		X
S	D	7
2		
  - 4. 

X		2
7	S	D
↑		

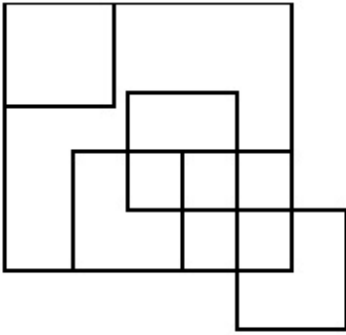
**Q.8** Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

9 – 27 – 31 – 36; 10 – 30 – 34 – 39

- Ans**
- 1. 8 – 24 – 28 – 35
  - 2. 15 – 45 – 50 – 55
  - 3. 11 – 33 – 38 – 44
  - 4. 5 – 15 – 19 – 24

**Q.9** How many squares are there in the figure shown below?



- Ans**
- 1. 11
  - 2. 13
  - 3. 9
  - 4. 10

**Q.10** Select the option in which the numbers share the same relationship as that shared by the given pair of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

63 : 441  
51 : 357

- Ans**
- 1. 68 : 340
  - 2. 54 : 324
  - 3. 39 : 273
  - 4. 89 : 96

**Q.11** Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)  
Kaziranga : Rhinoceros

- Ans**
- 1. Gahirmatha : Lions
  - 2. Periyar : Elephants
  - 3. Ranthambore : Peacocks
  - 4. Gir : Leopards

**Q.12** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)  
Magician : Magic :: Dancer : ?

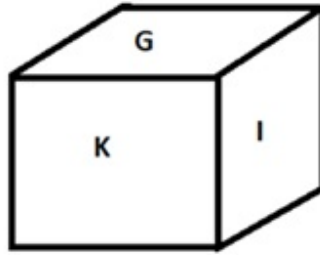
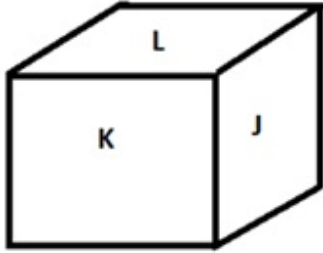
- Ans**
- 1. Dance
  - 2. Theatre
  - 3. Movie
  - 4. Song

Q.13 Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

\_ O \_ O \_ \_ O \_ P \_ O \_

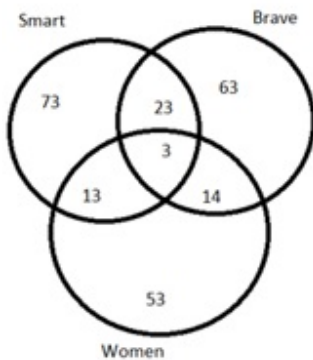
- Ans
- 1. PPOOPOP
  - 2. OOPPPOO
  - 3. OPOPOOP
  - 4. PPOOPO

Q.14 Six letters G, H, I, J, K and L are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to G.



- Ans
- 1. K
  - 2. I
  - 3. L
  - 4. J

Q.15 Study the given Venn diagram and answer the question that follows.



How many women are either smart or brave or both?

- Ans
- 1. 27
  - 2. 23
  - 3. 30
  - 4. 26

Q.16 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?

P	0	W	P	X	W	1	X	
1		0		P		W		?
W	X	X	1	1	0	0	P	

Ans

✓ 1.

0	1
	X
P	W

✗ 2.

0	1
	P
W	X

✗ 3.

P	0
	1
W	X

✗ 4.

0	1
	X
W	P

Q.17 What will come in place of the question mark (?) in the following equation if '+' and '×' are interchanged and '-' and '÷' are interchanged?  
 $27 - 6 + 4 \times 8 \div 6 = ?$

- Ans
- ✗ 1. 22
  - ✗ 2. 18
  - ✗ 3. 16
  - ✓ 4. 20

Q.18 13 is related to 117 following a certain logic. Following the same logic, 23 is related to 207. To which of the following is 51 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- ✗ 1. 350
  - ✗ 2. 450
  - ✗ 3. 359
  - ✓ 4. 459



Q.19 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$2864 \times 4 - 168 \div 2 + 69 = ?$$

Ans  1. 389

2. 983

3. 839

4. 938

Q.20 Which of the following numbers will replace the question mark (?) in the given series?

22, 23, 27, 54, 70, 195, ?

Ans  1. 196

2. 230

3. 200

4. 231

Q.21 In a certain code language, 'VAT' is coded as '43' and 'AWW' is coded as '47'. How will 'ZHU' be coded in that language?

Ans  1. 63

2. 48

3. 55

4. 62

Q.22 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans  1.  $360 - 12 - 6$

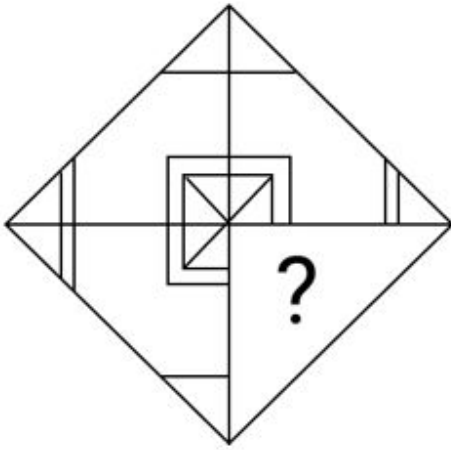
2.  $82 - 8 - 2$

3.  $63 - 6 - 3$

4.  $164 - 10 - 4$

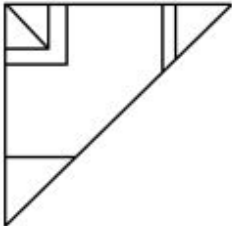
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Q.23 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

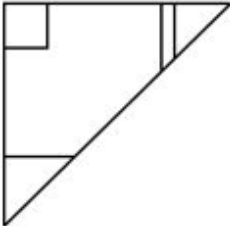


Ans

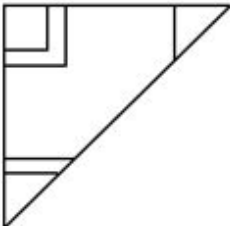
✓ 1.



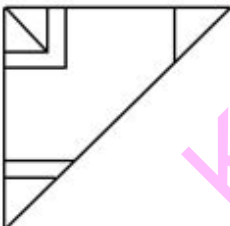
✗ 2.



✗ 3.



✗ 4.



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Q.24 In a certain code language, 'ESTATE' is written as '80', 'FAMOUS' is written as '85', how will 'FOREST' be written in that language?

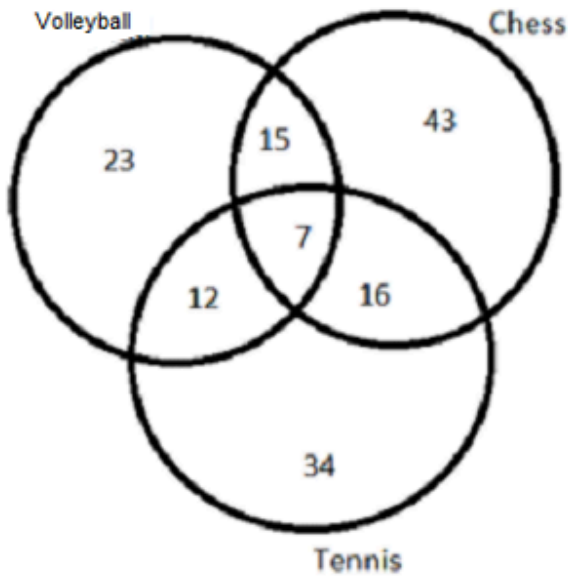
Ans ✓ 1. 93

✗ 2. 88

✗ 3. 83

✗ 4. 90

Q.25 How many people play either only volleyball or only chess as per the given Venn diagram?



- Ans
- 1. 81
  - 2. 88
  - 3. 15
  - 4. 66

Section : General Awareness

Q.1 Which of the following is NOT a component of a flower?

- Ans
- 1. Androecium
  - 2. Corolla
  - 3. Spines
  - 4. Calyx

Q.2 Where was the Hindu College established in the year 1791?

- Ans
- 1. Mathura
  - 2. Kolkata
  - 3. Benaras
  - 4. Patna

Q.3 Where is the Gulf of Mannar located?

- Ans
- 1. Between the south-eastern tip of India and the eastern coast of Sri Lanka
  - 2. Between the south-eastern tip of India and the western coast of Sri Lanka
  - 3. Between the south-eastern tip of India and the north-western coast of Sri Lanka
  - 4. Between the south-eastern tip of India and the southern coast of Sri Lanka

Q.4 Who among the following won a Gold Medal at the 2021 World Cadet Wrestling Championship held in Budapest, Hungary?

- Ans
- 1. Geeta Phogat
  - 2. Vinesh Phogat
  - 3. Pooja Dhanda
  - 4. Priya Malik

**Q.5** Sangeet Kala Acharya Award is given by which organisation every year since 1993?

- Ans**
- 1. Madras Music Academy
  - 2. Calcutta School of Music
  - 3. Shankar Mahadevan Academy
  - 4. Subramaniam Academy of Performing Arts

**Q.6** Which of the following is an example of a non-tax revenue source for the government?

- Ans**
- 1. Fees and fines
  - 2. Personal income tax
  - 3. Corporate income tax
  - 4. Value-added tax

**Q.7** Sangeet Natak Akademy Awardee Sulochana Chavan was a famous \_\_\_\_\_ singer.

- Ans**
- 1. Giddha
  - 2. Jhumair
  - 3. Ghumar
  - 4. Lavani

**Q.8** Which of the following plants is used to cure cold and cough?

- Ans**
- 1. Tulsi
  - 2. Babool
  - 3. Jamun
  - 4. Arjun

**Q.9** Which is the colloquial term to describe the occurrence of pre-monsoon rains in India especially in parts of Kerala, Karnataka and Tamil Nadu?

- Ans**
- 1. Mango showers
  - 2. Kalbaisakhi
  - 3. Nor Westers
  - 4. Orange showers

**Q.10** The name 'Piyadassi' is associated with whom among the following Mauryan kings?

- Ans**
- 1. Bindusara
  - 2. Brihadratha
  - 3. Ashoka
  - 4. Chandragupta Maurya

**Q.11** The festival of 'Rath Yatra' of Puri in Odisha is dedicated to which deity?

- Ans**
- 1. Lord Jagannath
  - 2. Lord Ganesha
  - 3. Lord Shiva
  - 4. Lord Hanuman

**Q.12** How many members are nominated by the President to the Rajya Sabha?

- Ans**
- 1. 12
  - 2. 10
  - 3. 20
  - 4. 15

**Q.13** Which of the following is NOT the socio-economic objective of Industrial Policy Statement 1980?

- Ans**
- 1. Higher employment generation
  - 2. Consumer protection against high prices and bad quality
  - 3. Promotion of export-oriented industries
  - 4. Allowing the maximum foreign direct investment

**Q.14** In which of the following years will India host the World Badminton Championship?

- Ans**
- 1. 2025
  - 2. 2028
  - 3. 2026
  - 4. 2027

**Q.15** Grignard reagent is represented as:

- Ans**
- 1.  $\text{CH}_3\text{-Ca-F}$
  - 2.  $\text{CH}_3\text{-Be-F}$
  - 3.  $\text{CH}_3\text{-Mg-Cl}$
  - 4.  $\text{H-Mg-H}$

**Q.16** Which of the following crops is NOT grown during the Zaid season in India?

- Ans**
- 1. Rice
  - 2. Cucumber
  - 3. Watermelon
  - 4. Muskmelon

**Q.17** Who was the player of the match in the semi-final of the T20 Women's World Cup 2023 played between India and Australia?

- Ans**
- 1. Deepti Sharma
  - 2. Ashleigh Gardner
  - 3. Meg Lanning
  - 4. Harmanpreet kaur

**Q.18** As per article 123, the ordinance making power is the most important legislative power of \_\_\_\_\_.

- Ans**
- 1. President
  - 2. Rajya Sabha
  - 3. Legislative council
  - 4. Chief Justice of India

**Q.19** In which year was the Gandhi-Irwin Pact signed?

- Ans**
- 1. 1935
  - 2. 1929
  - 3. 1931
  - 4. 1941

**Q.20** Which of the following schemes was launched for the welfare of the unorganised sector workers and labourers on 26 August 2021?

- Ans**
- 1. e-Shram Portal
  - 2. PM Mentoring Yuva Scheme
  - 3. PM Daksh Yojana
  - 4. Gram Ujala Scheme

Q.21 What is the SI unit of current?

- Ans
- 1. Ohm
  - 2. Ampere
  - 3. Metre
  - 4. Volt

Q.22 Name a common electrolyte disorder that occurs when the amount of sodium in your blood becomes abnormally low.

- Ans
- 1. Hyperkalemia
  - 2. Hypokalemia
  - 3. Hyponatremia
  - 4. Hypernatremia

Q.23 Dr. B. R. Ambedkar described Directive Principles of State Policy as \_\_\_\_\_ of the Indian constitution.

- Ans
- 1. soul of the state
  - 2. identity card of the constitution
  - 3. The most precious part of the constitution
  - 4. a novel feature of the constitution

Q.24 Tera Tali folk dance is primarily associated with which of the following states?

- Ans
- 1. Rajasthan
  - 2. Assam
  - 3. Madhya Pradesh
  - 4. Haryana

Q.25 Who among the following was the Vakil under the reign of Mughal Emperor, Akbar, who received the title of Khan-i-Khanan?

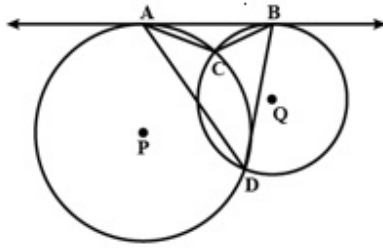
- Ans
- 1. Mulla do-Piyaza
  - 2. Birbal
  - 3. Raja Todar Mal
  - 4. Bairam Khan

Section : Quantitative Aptitude

Q.1 A boatman rows to a place 30 km distant and back in 14 hours. He finds that he can row 10 km with the stream at the same time as 4 km against the stream. Find the speed (in km/h) of the stream.

- Ans
- 1.  $\frac{9}{2}$
  - 2.  $\frac{9}{4}$
  - 3.  $\frac{2}{9}$
  - 4.  $\frac{4}{9}$

Q.2 Two circles, centred at P and Q intersect at two points C and D. AB is tangent to the two circles at A and B. If  $\angle ADB = 68^\circ$ , then  $\angle ACB =$  \_\_\_\_\_.



- Ans
- 1.  $132^\circ$
  - 2.  $112^\circ$
  - 3.  $124^\circ$
  - 4.  $102^\circ$

Q.3 Find the remainder:  $(17^{13} - 21) \div 18$

- Ans
- 1. 15
  - 2. 17
  - 3. 14
  - 4. 21

Q.4 Simplify the following.

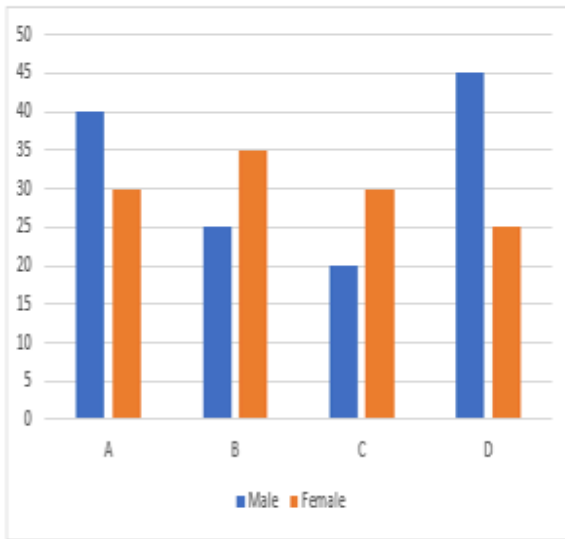
$$16 \div 2 - 7 \times 15 \div 3 + 5 \times 5 + 4 \times 3 - 10$$

- Ans
- 1. 1
  - 2. 2
  - 3. 0
  - 4. -1

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Q.5 Study the given graph carefully and answer the question that follows.

The given graph shows the number of male and female volunteers for helping handicapped people from four different districts A, B, C and D.



Find the number of volunteers altogether.

- Ans
- 1. 230
  - 2. 250
  - 3. 240
  - 4. 260

Q.6 If the curved surface area of a cylinder is  $880 \text{ cm}^2$ , then the product of its height and radius is:

- Ans
- 1.  $90 \text{ cm}^2$
  - 2.  $120 \text{ cm}^2$
  - 3.  $220 \text{ cm}^2$
  - 4.  $140 \text{ cm}^2$

Q.7 The angle turned by minutes hand in 25 minutes in a clock is:

- Ans
- 1.  $\pi$
  - 2.  $\frac{\pi}{2}$
  - 3.  $\frac{5\pi}{3}$
  - 4.  $\frac{5\pi}{6}$

Q.8 A class of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 72. What is the average score of the class?

- Ans
- 1. 66
  - 2. 68
  - 3. 67
  - 4. 69



Q.9 If  $m = a \sec A$  and  $y = b \tan A$ , then find the value of  $b^2 m^2 - a^2 y^2 + \frac{a^2 y^2}{b^2 m^2} + \cos^2 A$ .

- Ans
- 1.  $a^2 b^2$
  - 2.  $1 - a^2 b^2$
  - 3.  $a^2 b^2 + 2$
  - 4.  $a^2 b^2 + 1$

Q.10 Two pipes P and Q can fill a tank in 36 minutes and 45 minutes, respectively. If both pipes are opened together, the time taken to fill the tank is:

- Ans
- 1. 81 minutes
  - 2. 20 minutes
  - 3. 40.5 minutes
  - 4. 10 minutes

Q.11 The table shows the percentage distribution of the population (only male and female) according to Gender and Literacy.

State	Percentage literate	Gender	
		Literate	Illiterate
		M : F	M : F
A	55	5 : 6	4 : 5
B	72	1 : 1	3 : 2
C	78	4 : 3	3 : 2

If the literate male population of state A is 5,00,000, then the total population of the state is:

- Ans
- 1. 30,00,000
  - 2. 40,00,000
  - 3. 16,00,000
  - 4. 20,00,000

Q.12 Study the given table and answer the question.

The table displays the number of cars produced (in lakhs) by six different brands between 2018 and 2023.

Brand	2018	2019	2020	2021	2022	2023
A	36	40	42	45	47	42
B	23	37	28	32	34	26
C	45	47	51	54	56	48
D	35	37	42	32	36	28
E	57	56	52	38	48	42
F	43	45	56	41	52	40

Which brand production is the highest, and in which year?

- Ans
- 1. E and 2019
  - 2. E and 2018
  - 3. C and 2022
  - 4. F and 2020

Q.13 A manufacturer announces a trade discount of 30% on his products for his dealers. One of the dealers purchased 6 smart phones manufactured by the company at the rate of Rs.25,000 each. What is the amount of trade discount?

- Ans
- 1. Rs.50,000
  - 2. Rs.55,000
  - 3. Rs.1,05,000
  - 4. Rs.45,000

Q.14 Find the mean proportional of 12.96 and 0.16.

- Ans
- 1. 1.21
  - 2. 1.96
  - 3. 1.44
  - 4. 1.69

Q.15 The perimeters of two similar triangles  $\Delta RST$  and  $\Delta ABC$  are 26 cm and 39 cm, respectively. If  $AB = 24$  cm, then  $RS$  is \_\_\_\_.

- Ans
- 1. 16 cm
  - 2. 36 cm
  - 3. 18 cm
  - 4. 24 cm

Q.16 In the following sets, which set represents the angles of a triangle?

- Ans
- 1.  $\{30^\circ, 60^\circ, 90^\circ\}$
  - 2.  $\{80^\circ, 50^\circ, 90^\circ\}$
  - 3.  $\{30^\circ, 50^\circ, 110^\circ\}$
  - 4.  $\{30^\circ, 50^\circ, 90^\circ\}$

Q.17 Simplify the following expression.

$$(g - h)^2 - (g + h)^2 + 4gh$$

- Ans
- 1.  $4gh$
  - 2.  $-4gh$
  - 3. 4
  - 4. 0

Q.18 The following table shows the percentage population of four states below poverty line, and the male to female ratios both above and below the poverty line.

State	Percentage of population below poverty line	Ratio of male to female	
		Below poverty line	Above poverty line
		Male : Female	Male : Female
P	13	1 : 2	1 : 4
Q	19	2 : 5	3 : 5
R	11	3 : 4	2 : 9
S	15	1 : 6	7 : 4

If the population of states Q and S is 14,700 each, then what is the total number of males below poverty line in these states?

- Ans
- 1. 1276
  - 2. 1479
  - 3. 1113
  - 4. 1364

Q.19 A sum of ₹10,000 is taken as a loan by Rajesh at a rate of 15% p.a. simple interest for 2 years. But Rajesh could not repay it at the agreed time and asked for an extension of two more years. So, the lender included the interest amount for the period as principal for the next two years at the same rate of interest. The total amount paid by Rajesh at the end of 4 years is:

- Ans
- 1. ₹18,590
  - 2. ₹16,900
  - 3. ₹17,650
  - 4. ₹15,630

Q.20 The area of a sector of a circle of radius 12 cm, formed by an arc of length 7 cm is:

- Ans
- 1.  $42 \text{ cm}^2$
  - 2.  $84 \text{ cm}^2$
  - 3.  $21 \text{ cm}^2$
  - 4.  $28 \text{ cm}^2$

Q.21 Kalyan spends 80% of his income. His income increases by 15% and his expenditure also increases by 5%. The percentage of increase in his savings is:

- Ans
- 1. 50%
  - 2. 20%
  - 3. 55%
  - 4. 40%

Q.22 A dishonest fruit-seller sells fruits at 20% profit but he uses 950 gm weight in place of 1 kg. What is the profit per cent?

- Ans
- 1.  $\frac{500}{17}\%$
  - 2.  $\frac{500}{19}\%$
  - 3.  $\frac{500}{32}\%$
  - 4.  $\frac{700}{19}\%$

Q.23 Simplify  $\frac{1.5 \times 1.5 + 2.5 \times 2.5 + 3.5 \times 3.5 + 2 \times 1.5 \times 2.5 + 2 \times 2.5 \times 3.5 + 2 \times 1.5 \times 3.5}{1.5 + 2.5 + 3.5}$ .

- Ans
- 1. 9.5
  - 2. 6.5
  - 3. 8.5
  - 4. 7.5

Q.24 The value of  $\left(\frac{\operatorname{cosec} A}{\operatorname{cosec} A - 1} + \frac{\operatorname{cosec} A}{\operatorname{cosec} A + 1}\right) \left(\frac{\sec A}{\sec A - 1} + \frac{\sec A}{\sec A + 1}\right)^{-1}$ , when  $A = 60^\circ$  is:

- Ans
- 1. 4
  - 2. 3
  - 3. 1
  - 4. 2

Q.25 2 biscuits and 1 chocolate cost ₹69. 2 chocolates and 3 cups of coffee cost ₹127. 3 biscuits, 4 chocolates and 2 cups of coffee cost ₹229. Find the total cost (in ₹) of 5 biscuits, 5 chocolates and 5 cups of coffee.

- Ans
- 1. 304
  - 2. 375
  - 3. 345
  - 4. 355

**Q.1** Choose the most appropriate ANTONYM for the underlined word in the given sentence.

The war was followed by a long period of prosperity.

- Ans
- 1. Security
  - 2. Secure
  - 3. Affluence
  - 4. Failure

**Q.2** Select the option that can be used as a one-word substitute for the given phrase.

An important person who represents his/her country in a foreign country

- Ans
- 1. Amateur
  - 2. Ambassador
  - 3. Altruist
  - 4. Anonymous

**Q.3** Select the option that expresses the given sentence in passive voice.  
Martha made pancakes yesterday.

- Ans
- 1. Pancakes had been made by Martha yesterday.
  - 2. Pancakes were being made by Martha yesterday.
  - 3. Pancakes were made by Martha yesterday.
  - 4. Pancakes was made by Martha yesterday.

**Q.4** In the given question, a statement divided into different segments is given. Rearrange all the segments to form a coherent statement.

O: also benefit from knowing

P: there are several reasons

Q: why even parents would

R: more about how and why

S: children do the things that they do

- Ans
- 1. RQOPS
  - 2. OPQSR
  - 3. PQORS
  - 4. PQROS

**Q.5** Select the most appropriate meaning of the given idiom.

Radhika stood by Monica's side through thick and thin.

- Ans
- 1. Under easy situations wherein she could ensure Monica's safety and security
  - 2. In all the happy moments, personally spending most of her time
  - 3. Under all conditions, no matter how challenging or difficult
  - 4. In the moments when Monica couldn't complete some simple tasks

**Q.6** Give one word substitution for :  
A person who is unsure about God's existence

- Ans
- 1. Ignorant
  - 2. Atheist
  - 3. Agnostic
  - 4. Theist

Q.7 Select the most appropriate synonym of the underlined word in the given sentence.  
His approach was filled with such perseverance that it was difficult to overlook his merit.

- Ans
- 1. Ignorance
  - 2. Doggedness
  - 3. Reluctance
  - 4. Monotonous

Q.8 Select the most appropriate option that can substitute the underlined part in the following sentence.  
Everyone called the reporter a daredevil after he came back safely from the war zone.

- Ans
- 1. a common man
  - 2. a fearless person
  - 3. an insignificant person
  - 4. a hypocrite

Q.9 Parts of the given sentence have been underlined. Identify the part that has an error. Select 'No error' if there is no error.  
Although the team had trained diligently for months, they had still overwhelmed by the opponent's unexpected tactics.

- Ans
- 1. No error
  - 2. had still overwhelmed
  - 3. trained diligently
  - 4. for months

Q.10 Select the most appropriate ANTONYM of the underlined word.  
If someone babbling, it means that they talk in a confused or excited way.

- Ans
- 1. Gossips
  - 2. Quiet
  - 3. Talkative
  - 4. Rants

Q.11 Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.

Akash went to \_\_\_\_\_ his school uniform. [sell]

- Ans
- 1. loan
  - 2. rent
  - 3. buy
  - 4. make

Q.12 Select the most appropriate option to substitute the underlined word segment in the given sentence.  
Carnatic music is usually performed by a small troupe of actors, consisting of a principal performer, a melodic accompaniment, and a rhythm accompaniment.

- Ans
- 1. board of directors
  - 2. ensemble of musicians
  - 3. panel of judges
  - 4. band of singers

Q.13 Select the option that can be used as a one-word substitute for the given group of words.

One who speaks less in a forum.

- Ans
- 1. Eccentric
  - 2. Loquacious
  - 3. Gabby
  - 4. Reticent

**Q.14** Parts of a sentence are given below in jumbled order. Select the option that gives their correct logical sequence and forms a meaningful sentence.

In November, Lakshman fell (P) / with fever (Q) / seriously ill (R) and pneumonia (S).

- Ans**
- 1. P, Q, S, R
  - 2. P, R, Q, S
  - 3. P, Q, R, S
  - 4. R, Q, S, P

**Q.15** In the following sentence, four words are underlined out of which one word is misspelt. Identify the INCORRECTLY spelt word.

I felt absolutely. (A) fit at the summit. My mind was absolutely clear. (B) I didn't feel tired, I felt exhelarated. (C) It was a very clear sensation. (D)

- Ans**
- 1. C
  - 2. D
  - 3. B
  - 4. A

**Q.16** The following sentence has been divided into five segments. The first segment has no error. Select the option that has the segment with the grammatical error.

Due to the pandemic, / the prices of / medicines increased / every day since / last December.

- Ans**
- 1. every day since
  - 2. medicines increased
  - 3. last December.
  - 4. the prices of

**Q.17** Select the option that expresses the given sentence in active voice.

I will be gifted a fancy doll by them the next day.

- Ans**
- 1. They gifted me a fancy doll yesterday.
  - 2. They are gifting me a fancy doll the next day.
  - 3. They gift me a fancy doll the previous day.
  - 4. They will gift me a fancy doll tomorrow.

**Q.18** Select the most appropriate option that can rectify the incorrectly spelt word in the following sentence.  
The government has ordered for the maintainance of the roads.

- Ans**
- 1. maintenance
  - 2. maintainence
  - 3. maintainiance
  - 4. maintenence

**Q.19** Select the most appropriate meaning of the given word.  
Illiterate

- Ans**
- 1. A person who cannot speak
  - 2. One who is well-educated
  - 3. A person who cannot read and write
  - 4. Highly rated thing

**Q.20** Select the most appropriate ANTONYM of the given word.  
Affirmative

- Ans**
- 1. Sanction
  - 2. Negative
  - 3. Acquiescence
  - 4. Accession

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

(1) \_\_\_\_\_ a letter came to inform them that Raka's mother Tara had another breakdown and was in a nursing home in Geneva and that Raka's grandmother Asha, (2) \_\_\_\_\_ seen another grandchild safely into the world, was flying to Switzerland to be with her, Nanda Kaul (3) \_\_\_\_\_ her lips, (4) \_\_\_\_\_ the blue sheets of paper with that distasteful sprawl (5) \_\_\_\_\_ them, and hid them in her desk.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. When
  - 2. Sooner
  - 3. For
  - 4. Unless

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

(1) \_\_\_\_\_ a letter came to inform them that Raka's mother Tara had another breakdown and was in a nursing home in Geneva and that Raka's grandmother Asha, (2) \_\_\_\_\_ seen another grandchild safely into the world, was flying to Switzerland to be with her, Nanda Kaul (3) \_\_\_\_\_ her lips, (4) \_\_\_\_\_ the blue sheets of paper with that distasteful sprawl (5) \_\_\_\_\_ them, and hid them in her desk.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. have
  - 2. has
  - 3. had
  - 4. having

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

(1) \_\_\_\_\_ a letter came to inform them that Raka's mother Tara had another breakdown and was in a nursing home in Geneva and that Raka's grandmother Asha, (2) \_\_\_\_\_ seen another grandchild safely into the world, was flying to Switzerland to be with her, Nanda Kaul (3) \_\_\_\_\_ her lips, (4) \_\_\_\_\_ the blue sheets of paper with that distasteful sprawl (5) \_\_\_\_\_ them, and hid them in her desk.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. stuck
  - 2. dirt
  - 3. dusted
  - 4. pursed

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

(1) \_\_\_\_\_ a letter came to inform them that Raka's mother Tara had another breakdown and was in a nursing home in Geneva and that Raka's grandmother Asha, (2) \_\_\_\_\_ seen another grandchild safely into the world, was flying to Switzerland to be with her, Nanda Kaul (3) \_\_\_\_\_ her lips, (4) \_\_\_\_\_ the blue sheets of paper with that distasteful sprawl (5) \_\_\_\_\_ them, and hid them in her desk.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. folded up
  - 2. cleared up
  - 3. hid away
  - 4. tucked away

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

(1) \_\_\_\_\_ a letter came to inform them that Raka's mother Tara had another breakdown and was in a nursing home in Geneva and that Raka's grandmother Asha, (2) \_\_\_\_\_ seen another grandchild safely into the world, was flying to Switzerland to be with her, Nanda Kaul (3) \_\_\_\_\_ her lips, (4) \_\_\_\_\_ the blue sheets of paper with that distasteful sprawl (5) \_\_\_\_\_ them, and hid them in her desk.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

**Ans**  1. across

2. at

3. in

4. by

KD JOB UPDATES



## Combined Graduate Level Examination 2024 Tier I

Exam Date	17/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

\_ D R G \_ Z D R \_ B Z D \_ G B Z \_ R G B

- Ans
- 1. ZBDRD
  - 2. BBGRD
  - 3. ZBGRB
  - 4. ZBGRD

**Q.2** Select the set in which the numbers are related in the same way as are the numbers of the given sets. (429, 514), (688, 773)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. (396, 491)
  - 2. (546, 631)
  - 3. (319, 399)
  - 4. (407, 512)

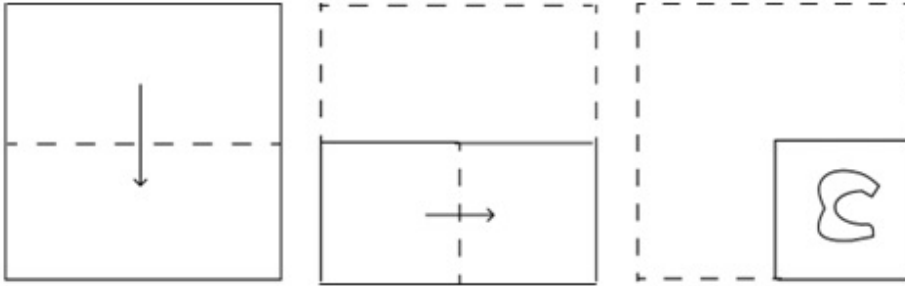
**Q.3** Select the term from among the given options that can replace the question mark (?) in the following series. PJ 16, SM 25, VP 36, YS 49, ?

- Ans
- 1. CW 81
  - 2. BV 64
  - 3. DW 64
  - 4. CV 36

**Q.4** In a certain code language, 'BIRTHDAY' is written as 'ADHTRIBY' and 'CONGRESS' is written as 'SERGNOCS'. How will 'DIVISION' be written in that language?

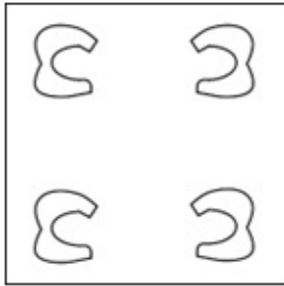
- Ans
- 1. NDOISIVI
  - 2. NOISIVID
  - 3. DNOISIVI
  - 4. OISIVIDN

Q.5 A paper is folded and cut as shown below. How will it appear when unfolded?

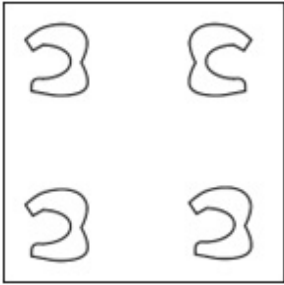


Ans

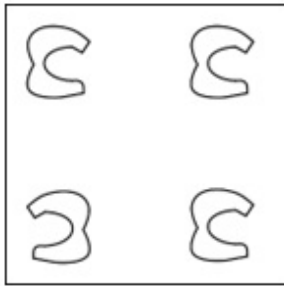
✗ 1.



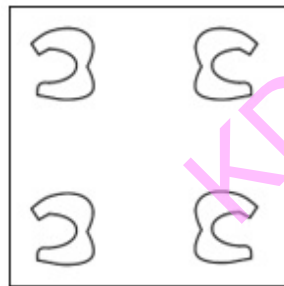
✗ 2.



✗ 3.



✓ 4.



Q.6 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

Ans ✗ 1. BEH

✗ 2. SVY

✓ 3. ILN

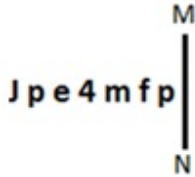
✗ 4. KNQ

Q.7 189 is related to 21 following a certain logic. Following the same logic, 234 is related to 26. To which of the following is 468 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

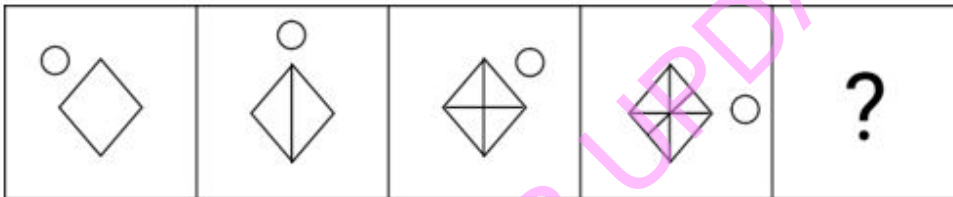
- Ans
- 1. 58
  - 2. 54
  - 3. 52
  - 4. 48

Q.8 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans
- 1. q 7 m 4 e q l
  - 2. d j w 7 e d j
  - 3. q 7 m 4 e b j
  - 4. l b e 4 m f b

Q.9 Select the figure from among the given options that can replace the question mark (?) and logically complete the series.



- Ans
- 1.
  - 2.
  - 3.
  - 4.

Q.10 G is the brother of F. E is the father of K.. C is the daughter of A. F is the mother of E. C is the sister of E. How is G related to A?

- Ans
- 1. Wife's brother
  - 2. Sister's husband
  - 3. Husband's sister
  - 4. Brother's wife

Q.11 In a certain code language, 'FLBS' is coded as '156' and 'MXT' is coded as '228'. How will 'VDZN' be coded in the same language?

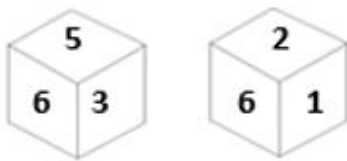
- Ans
- 1. 160
  - 2. 180
  - 3. 264
  - 4. 220

Q.12 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$101 \div 48 - 13013 \times 13 + 12 = ?$$

- Ans
- 1. 5836
  - 2. 5835
  - 3. 5837
  - 4. 5834

Q.13 A dice has numbers 1, 2, 3, 5, 6 and 8 on its sides. Two different positions of the same dice are shown below. Select the number that will be on the face opposite to the one having 6.



- Ans
- 1. 8
  - 2. 3
  - 3. 2
  - 4. 1

Q.14 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some balls are toys.

All circles are balls.

All balls are pits.

Conclusions:

(I) Some circles are toys.

(II) All pits are toys.

- Ans
- 1. Both conclusions (I) and (II) follow.
  - 2. Neither conclusion (I) nor (II) follow.
  - 3. Only conclusion (I) follows.
  - 4. Only conclusion (II) follows.

Q.15 Which letter-cluster will replace the question mark (?) to complete the given series?

BKUZ, ENWB, ?, KTAF, NWCH

- Ans
- 1. HQYD
  - 2. HRYE
  - 3. HRZD
  - 4. HRYD

**Q.16** Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1.  $26 - 95 - 21$
  - 2.  $22 - 67 - 22$
  - 3.  $20 - 15 - 51$
  - 4.  $16 - 45 - 21$

**Q.17** 'Magnify' is related to 'Expand' in the same way as 'Curtail' is related to '\_\_\_\_\_'.  
\_\_\_\_\_

- Ans**
- 1. Big
  - 2. Measure
  - 3. Restrict
  - 4. Small

**Q.18** The position of how many letters will remain unchanged if each of the letter in the word 'CERTAIN' is arranged in English alphabetical order?

- Ans**
- 1. One
  - 2. Zero
  - 3. Two
  - 4. Four

**Q.19** In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

All cars are birds.

Some birds are plants.

All plants are leaves.

**Conclusions:**

I. Some birds are cars.

II. Some plants are birds.

III. Some leaves are plants.

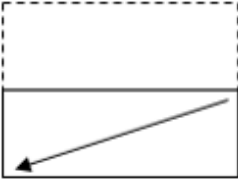
- Ans**
- 1. Only conclusions I and III follow.
  - 2. None of the conclusions follows.
  - 3. All the conclusions follow.
  - 4. Only conclusions II and III follow.

Q.20 A transparent sheet with a pattern is given below. Select the option that depicts the pattern that would appear when the given transparent sheet is folded at the middle horizontal line.

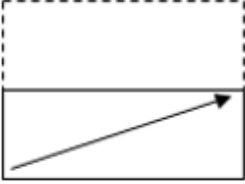


Ans

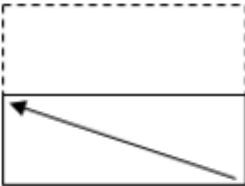
✗ 1.



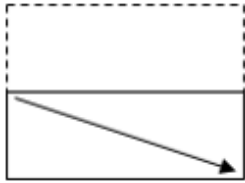
✗ 2.



✗ 3.



✓ 4.



KD JOB UPDATES

Q.21 Identify the figure given in the options which when put in place of ? will logically complete the series.

2	1	5	2	4	5	6	4	?
	5		4		6		7	
3	0	0	1	1	2	2	5	

Ans

✗ 1.

4	7
	5
6	2

✗ 2.

1	5
	2
4	5

✓ 3.

7	6
	9
5	4

✗ 4.

6	4
	2
7	5

Q.22 What will come in the place of '?' in the following equation, if '÷' and '-' are interchanged and '×' and '+' are interchanged?

$$4 + 9 \times 48 - 6 \div 7 = ?$$

Ans

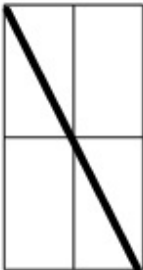
✗ 1. 30

✗ 2. 27

✗ 3. 41

✓ 4. 37

Q.23 How many triangles are there in the given figure?



Ans

✓ 1. 6

✗ 2. 4

✗ 3. 2

✗ 4. 7

**Q.24** 30 is related to 41 following certain logic. Following the same logic, 14 is related to 21. To which of the following numbers is 54 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. 63
  - 2. 53
  - 3. 59
  - 4. 69

**Q.25** Select the number from among the given options that can replace the question mark (?) in the following series. 96,77,60,47,36, ?

- Ans**
- 1. 30
  - 2. 29
  - 3. 28
  - 4. 32

Section : **General Awareness**

**Q.1** Identify the Indian classical dancer associated with Kathak.

- Ans**
- 1. Vedantam Satyanarayana Sarma
  - 2. Kelucharan Mohapatra
  - 3. Rohini Bhate
  - 4. Sharodi Saikia

**Q.2** British Parliament introduced Indian High Courts Act in which year?

- Ans**
- 1. 1860
  - 2. 1861
  - 3. 1859
  - 4. 1858

**Q.3** Which of the following is an example of private sector industry in India?

- Ans**
- 1. Steel Authority of India Limited
  - 2. Tata Iron and Steel Company
  - 3. Oil India Limited
  - 4. Bharat Heavy Electricals Limited

**Q.4** In which of the following years was the Election Commission of India founded?

- Ans**
- 1. 1955
  - 2. 1952
  - 3. 1950
  - 4. 1947

**Q.5** In Pradhan Mantri Kisan Samman Nidhi Yojana, beneficiaries are provided with how much amount every year?

- Ans**
- 1. ₹6,000
  - 2. ₹4,000
  - 3. ₹5,000
  - 4. ₹3,000



**Q.6** When was pro kabaddi league inaugurated for the first time in India?

- Ans**
- 1. 2007
  - 2. 2008
  - 3. 2015
  - 4. 2014

**Q.7** Wood's Dispatch of 1854 primarily dealt with which of the following subject matters?

- Ans**
- 1. Education
  - 2. Railways
  - 3. Finance
  - 4. Health

**Q.8** Who among the following Indian women boxers was elected as the Chairperson and a voting member of the International Boxing Association in 2022?

- Ans**
- 1. Pooja Rani
  - 2. Mary Kom
  - 3. Nikhat Zareen
  - 4. Lovlina Borgohain

**Q.9** In which year was the MPLADS scheme implemented?

- Ans**
- 1. 2003
  - 2. 1983
  - 3. 1993
  - 4. 2013

**Q.10** The tropical cyclones in Australia are known as \_\_\_\_\_.

- Ans**
- 1. hurricanes
  - 2. willy-willies
  - 3. cyclones
  - 4. typhoons

**Q.11** Which of the following pairs is INCORRECTLY matched?.

- Ans**
- 1. Lactose: Milk
  - 2. Starch: Egg yolk
  - 3. Fructose: Grapes
  - 4. Maltose: Wheat, cornmeal and barley

Q.12 Match the following items.

List I

List II

i. Global System of Trade Preferences

a. 2021

ii. India-Gulf Cooperation Council Free Trade Agreement

b. 1988

iii. The India-Republic of Korea Comprehensive Economic Partnership Agreement

c. 2004

iv. 7<sup>th</sup> Trade Policy Review

d. 2010

Ans  1. i (d), ii (a), iii (b), iv (c)

2. i (b), ii (a), iii (d), iv (c)

3. i (c), ii (d), iii (a), iv (b)

4. i (b), ii (c), iii (d), iv (a)

Q.13 Prabha Atre, who received the Padma Vibhushan Award 2022, belongs to which Gharana?

Ans  1. Indore gharana

2. Kirana gharana

3. Agra gharana

4. Mewati gharana

Q.14 An inscription, Takht-i-Bahi recovered from Mardan near Peshawar, indicates the rule of which of the following dynasties in north-western area of present Pakistan?

Ans  1. Bactrian

2. Sakas

3. Indo-Greek

4. Parthians

Q.15 According to Census of India 2011, which Union Territory has the highest slum population?

Ans  1. Andaman and Nicobar Islands

2. Chandigarh

3. Puducherry

4. Delhi

Q.16 If GNP is 16% higher than the last year and the rate of inflation is 9%, production in the economy has grown by:

Ans  1. 4%

2. 6%

3. 5%

4. 7%

Q.17 Bhupen Hazarika was one of the most well-known personalities from the state of \_\_\_\_\_.

Ans  1. Odisha

2. Assam

3. Nagaland

4. Manipur

Q.18 Calorimeter is a small container made of a thin sheet of \_\_\_\_\_ with good thermal conductivity.

- Ans
- 1. silver
  - 2. platinum
  - 3. copper
  - 4. cesium

Q.19 Which of the following gases get released when dilute sulphuric acid ( $H_2SO_4$ ) reacts with magnesium (Mg)?

- Ans
- 1.  $SO_3$
  - 2.  $SO_2$
  - 3.  $O_2$
  - 4.  $H_2$

Q.20 Which of the following duties has been NOT prescribed by the Indian Constitution as Fundamental Duties?

1. To defend the country
2. To pay income tax
3. To cast the vote in election
4. To safeguard the public property

- Ans
- 1. 1 only
  - 2. 2 only
  - 3. 2 and 3 both
  - 4. 2 and 4 both

Q.21 Who among the following was the successor of Mughal Emperor, Babur?

- Ans
- 1. Shahjahan
  - 2. Humayun
  - 3. Jahangir
  - 4. Aurangzeb

Q.22 Which of the following hills is located in the Eastern Ghats?

- Ans
- 1. Shevaroy hill
  - 2. Mizo hill
  - 3. Khasi hill
  - 4. Anai Mudi hill

Q.23 Which set of diseases are caused by bacteria?

- Ans
- 1. Influenza, Dengue, Cholera
  - 2. Typhoid, Cholera, Tuberculosis
  - 3. Dengue, Malaria, Cholera
  - 4. Malaria, Common cold, Influenza

Q.24 Which of the following numbers best describes the number of white pieces used in chess?

- Ans
- 1. 18
  - 2. 16
  - 3. 19
  - 4. 17

Q.25 Paryushana festival is celebrated by the people of which of the following communities?

- Ans
- 1. Jain
  - 2. Muslim
  - 3. Hindu
  - 4. Sikh

Q.1 Simplify:

$$\left[\left(\frac{1}{6} \div \frac{1}{9} \times \frac{2}{3}\right) \times 18 + 5\right]$$

- Ans
- 1. 9
  - 2. 23
  - 3. 27
  - 4. 15

Q.2 The average of the squares of the first 47 natural numbers is

- Ans
- 1. 760
  - 2. 761
  - 3. 759
  - 4. 762

Q.3 Akshara and Siddharth travel from point P to Q, a distance of 72 km at a rate of 8 km/h and 10 km/h, respectively. Siddharth reaches Q first and returns immediately and meets Akshara at R. Find the distance from P to R.

- Ans
- 1. 65 km
  - 2. 63 km
  - 3. 64 km
  - 4. 66 km

Q.4 In a collection of rare coins, there is one gold coin for every four non-gold coins. If 20 more gold coins are added to the collection, the ratio of the number of gold coins to that of non-gold coins will be 2:3. The total number of coins in the collection will now become \_\_\_\_\_.

- Ans
- 1. 80
  - 2. 60
  - 3. 100
  - 4. 48

Q.5 Find the least value of k for which a 7-digit number 249k876 is divisible by 6.

- Ans
- 1. 1
  - 2. 0
  - 3. 5
  - 4. 7

Q.6 If the simple interest on ₹7,200 in 3 years at the rate of 16% per annum equals the simple interest on ₹9,600 at the rate of x% per annum in 4 years. The value of x is equal to:

- Ans
- 1. 9
  - 2. 11
  - 3. 8
  - 4. 10

Q.7 If a shopkeeper sells sugar at ₹44.8 per kg, he is able to make a 12% profit. Due to water seepage,  $\frac{1}{5}$  of the sugar is damaged. What should now be the selling price per kg of the rest of the sugar to have a 5% profit?

- Ans
- 1. ₹49.5
  - 2. ₹52.5
  - 3. ₹48.5
  - 4. ₹51.5

Q.8 For what value of  $k$ , the system of equations  $kx - 15y + 7 = 0$  and  $7x - 21y - 19 = 0$  has NO solution?

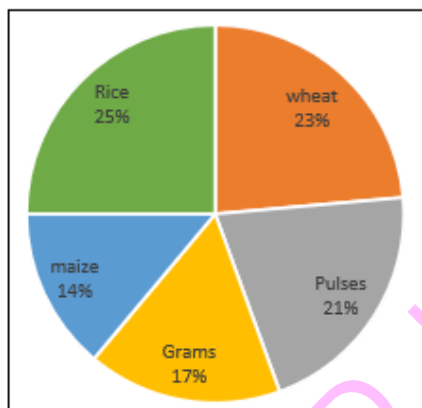
- Ans
- 1. 5
  - 2. 12
  - 3. 25
  - 4. 6

Q.9 A shopkeeper sold the following items to Arushi earning profit on it. How much total profit (in ₹) did he earn on the basis of the given data?

Item	Cost Price per unit (₹)	Profit on cost (%)
Mobile	20,000	10
Laptop	72,000	20
Mobile covers	300	12

- Ans
- 1. 16,436
  - 2. 34,760
  - 3. 16,760
  - 4. 16,636

Q.10 The given pie chart shows the annual agricultural production (in tonnes) in a region. The total production is 8600 tonnes.



What is the annual production of rice in the region?

- Ans
- 1. 5012 tonnes
  - 2. 1052 tonnes
  - 3. 2150 tonnes
  - 4. 2051 tonnes

**Q.11** The number of three different types of cars, X, Y, and Z, manufactured by a company over three years is given in the below table. Study the table carefully and answer the question that follows.

Cars/Years	2020	2021	2022
X	2560	3201	3551
Y	2250	2802	3020
Z	2750	2550	2600

What is the average number of cars manufactured by the company in the year 2022?

- Ans**
- 1. 3227
  - 2. 2851
  - 3. 3057
  - 4. 2720

**Q.12** Find the measure of the central angle of a sector if its area is  $16\pi$  and the radius is 8.

- Ans**
- 1.  $75^\circ$
  - 2.  $60^\circ$
  - 3.  $108^\circ$
  - 4.  $90^\circ$

**Q.13** What is the difference in area (in  $\text{cm}^2$ ) of  $\Delta ABC$  having sides of 10 cm, 20 cm and 20 cm, and a right angled triangle  $\Delta PQR$  with hypotenuse of 13 cm and one of the perpendiculars of 12 cm?

Note:  $\sqrt{2} = 1.41$ ,  $\sqrt{3} = 1.73$ ,  $\sqrt{7} = 2.65$ ,  $\sqrt{13} = 3.61$ ,  $\sqrt{15} = 3.87$ ,  $\sqrt{21} = 4.58$

- Ans**
- 1. 70.05
  - 2. 36.57
  - 3. 66.75
  - 4. 53.58

**Q.14** At what angle is the arc length half the perimeter of the circle?

- Ans**
- 1.  $120^\circ$
  - 2.  $180^\circ$
  - 3.  $90^\circ$
  - 4.  $270^\circ$

**Q.15** In a company, all employees are getting equal wages. If the number of employees is increased by 20% and their wages per head are decreased by 18%, what is the percentage decrease in total wages?

- Ans**
- 1. 2.4%
  - 2. 1%
  - 3. 1.6%
  - 4. 1.4%

**Q.16** A shopkeeper marked the price 20% more than its cost price. If he allows a discount of 30%, then find his loss percent.

- Ans**
- 1. 20%
  - 2. 16%
  - 3. 25%
  - 4. 15%

Q.17 Pipes A and B can fill a tank in 15 hours and 25 hours, respectively, whereas pipe C can empty the full tank in 40 hours. All three pipes are opened together, but pipe A is closed after 5 hours. After how many hours will the remaining part of the tank be filled?

- Ans
- 1.  $41\frac{4}{9}$
  - 2.  $43\frac{4}{9}$
  - 3.  $44\frac{4}{9}$
  - 4.  $39\frac{4}{9}$

Q.18 In a right angle  $\triangle ABC$ ,  $\angle B = 90^\circ$ , if  $\tan A = 1$ , then  $4 \sin A \cos A =$ \_\_\_\_\_.

- Ans
- 1. 1
  - 2. 2
  - 3.  $\frac{1}{2}$
  - 4. 4

Q.19 If  $x > 1$  and  $x^2 + \frac{1}{x^2} = 83$ , then  $x^3 - \frac{1}{x^3}$  is:

- Ans
- 1. 884
  - 2. 876
  - 3. 754
  - 4. 756

Q.20 If  $\sec \theta = \frac{29}{20}$  where  $0 < \theta < 90^\circ$ , then what is the value of  $3\operatorname{cosec} \theta + 3\cot \theta$ ?

- Ans
- 1.  $\frac{7}{3}$
  - 2. 7
  - 3. 14
  - 4. 49

Q.21 AP and AQ are two tangents drawn to a circle with center O from an external point A. If  $\angle PAQ = 40^\circ$ , then  $\angle POQ$  is:

- Ans
- 1.  $120^\circ$
  - 2.  $130^\circ$
  - 3.  $150^\circ$
  - 4.  $140^\circ$

Q.22 If  $A:B = 6 : 8$  and  $B:C = 7 : 10$ , then  $A:B:C$  is:

- Ans
- 1. 21:28:40
  - 2. 21:23:40
  - 3. 23:32:40
  - 4. 14:31:20

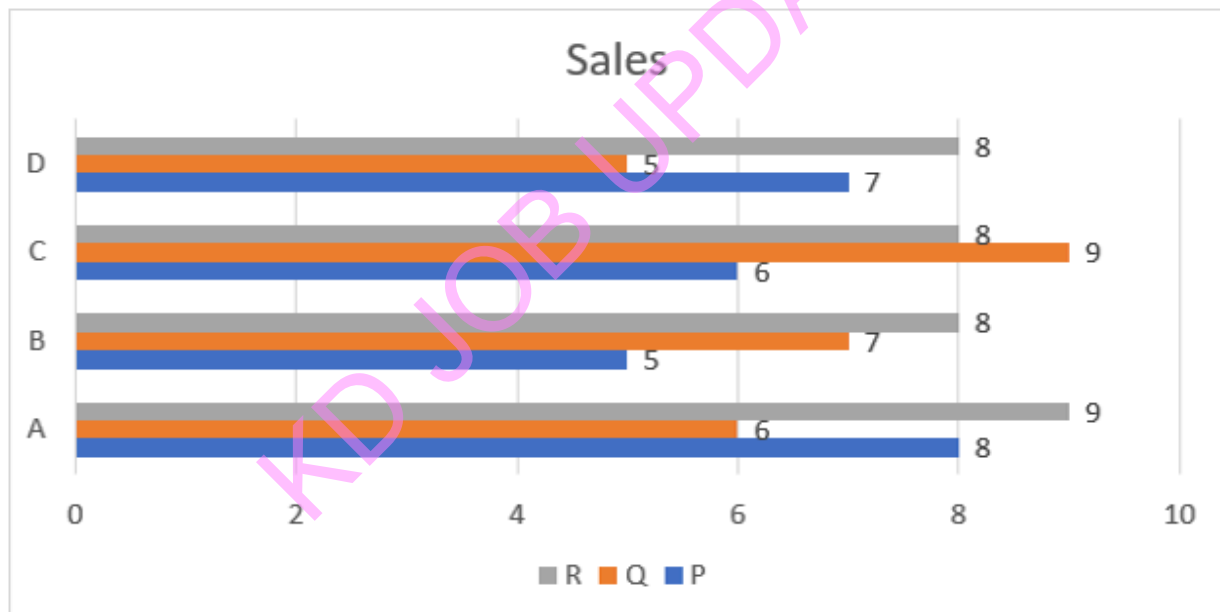
Q.23 If  $\cos 24^\circ = \frac{m}{n}$ , then the value of  $(\operatorname{cosec} 24^\circ - \cos 66^\circ)$  is:

- Ans
- 1.  $\frac{m^2}{n\sqrt{m^2 - n^2}}$
  - 2.  $\frac{n^2}{m\sqrt{m^2 - n^2}}$
  - 3.  $\frac{n^2}{m\sqrt{n^2 - m^2}}$
  - 4.  $\frac{m^2}{n\sqrt{n^2 - m^2}}$

Q.24 The circumference of the base of a cylindrical vessel is 44 cm and its height is 25 cm. How many liters of water can it hold? (Take  $\pi = \frac{22}{7}$ )

- Ans
- 1. 38.5
  - 2. 3.58
  - 3. 3.85
  - 4. 83.5

Q.25 Study the given graph and answer the question that follows.  
The graph shows the sales of three products: P, Q and R by four companies: A, B, C and D.



What percentage is the total production by company C, of the total production by company A?

- Ans
- 1. 110%
  - 2. 90%
  - 3. 100%
  - 4. 105%

Section : English Comprehension

Q.1 Select the most appropriate option to substitute the underlined segment in the given sentence.  
It is very hard for her to provide the necessities of her family .

- Ans
- 1. the necessities to her family
  - 2. the necessities by her family
  - 3. the necessity of her family
  - 4. the necessities from her families



**Q.2** The following sentence has been divided into four segments. Identify the segment in which the article has been used INCORRECTLY.

UNESCO works to / strengthen an intellectual / and moral solidarity / of humankind.

**Ans** ✓ 1. strengthen an intellectual

✗ 2. of humankind.

✗ 3. UNESCO works to

✗ 4. and moral solidarity

**Q.3** Select the option that can be used as a one-word substitute for the given group of words.  
The study of coins

**Ans** ✓ 1. Numismatics

✗ 2. Choreography

✗ 3. Informatics

✗ 4. Cartography

**Q.4** Select the INCORRECTLY spelt word.

**Ans** ✓ 1. Efficient

✗ 2. Contribution

✗ 3. Miscalculation

✗ 4. Mediation

**Q.5** Select the option that can be used as a one-word substitute for the given group of words.  
A person who is inclined to see the worst aspect of things

**Ans** ✓ 1. Pessimist

✗ 2. Philanthropist

✗ 3. Optimist

✗ 4. Altruist

**Q.6** Select the option that expresses the given sentence in passive voice.  
He will give a lecture on personality development.

**Ans** ✗ 1. A lecture on personality development can be given by him.

✗ 2. A lecture will be given on personality development.

✓ 3. A lecture on personality development will be given by him.

✗ 4. A lecture on personality development will be giving by him.

**Q.7** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. Note: This is an advertisement of an ice-cream brand.

(A) That's why Silky is deliciously different and exceptionally versatile, natural, thick and durable ice cream.

(B) Beautifully firm, nice, silky rather than thin and watery, it stays in shape and stands on top of fruits or pastries without soaking in.

(C) Silky thick double ice cream has a unique, fresh taste and texture.

**Ans** ✗ 1. ABC

✗ 2. BAC

✓ 3. CBA

✗ 4. BCA

**Q.8** Select the most appropriate synonym of the given word.  
Bully

**Ans** ✗ 1. Plough

✗ 2. Oxen

✗ 3. Coddle

✓ 4. Oppressor

**Q.9** Select the most appropriate synonym of the given word.  
Thankful

- Ans**
- 1. Ungrateful
  - 2. Affirmation
  - 3. Obligated
  - 4. Obscure

**Q.10** Select the most appropriate option to fill in the blank.

Ram went to \_\_\_\_\_ an ice cream.

- Ans**
- 1. buy
  - 2. by
  - 3. byre
  - 4. bye

**Q.11** The following sentence has been split into four segments. Identify the segment that contains an error.

Dr. Sinha has / brought about a new / book on social / impact of child labour.

- Ans**
- 1. impact of child labour
  - 2. book on social
  - 3. brought about a new
  - 4. Dr. Sinha has

**Q.12** Select the option that expresses the given sentence in passive voice.  
His behaviour vexes me sometimes.

- Ans**
- 1. He is being vexing me with his behaviour
  - 2. Sometimes he vexes me with his behaviour.
  - 3. I am sometimes vexed by his behaviour.
  - 4. His behaviour is vexed.

**Q.13** Select the sentence that contains a spelling error.

- Ans**
- 1. The host institution must provide the delegates with accomodation at a subsidised rate.
  - 2. The occurrence of the lunar eclipse is often a mystery for children.
  - 3. The boss addressed the meeting.
  - 4. Rail lines go parallel.

**Q.14** Select the most appropriate synonym of the given word.  
Labour

- Ans**
- 1. Mesh
  - 2. Toil
  - 3. Dalliance
  - 4. Relaxation

**Q.15** Select the most appropriate option that can substitute the underlined segment in the given sentence.  
To the general public, William was best known as a crusader for peace and as an admired critic about social, political and ethical subjects.

- Ans**
- 1. for peace and as an admired critic by
  - 2. for peace and as an admired critic on
  - 3. about peace and as an admired critic about
  - 4. in peace and as an admired critic about

**Q.16** Select the most appropriate meaning of the underlined idiom.

In those days, we did not expect luxuries; we were thankful if we could keep the wolf from the door.

- Ans
- 1. Avoid starvation
  - 2. Wallow in poverty
  - 3. Relish food
  - 4. Encourage starvation

**Q.17** Select the most appropriate ANTONYM of the given word.  
Entire

- Ans
- 1. Ingress
  - 2. Thorough
  - 3. Incomplete
  - 4. Undivided

**Q.18** Select the most appropriate option that can substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

No matter how hard work you, your boss will not recognise your efforts.

- Ans
- 1. hard you work
  - 2. work you do hard
  - 3. hardly you work
  - 4. no substitution

**Q.19** Select the most appropriate option that can substitute the underlined segment in the given sentence.

My cousin works day and night to achieve success in life.

- Ans
- 1. vale of tears
  - 2. around the clock
  - 3. great dealing
  - 4. a handful

**Q.20** Select the word OPPOSITE in meaning to the underlined word in the given sentence.  
Feeling discouraged, she finally finds the motivation for pursuing her goal.

- Ans
- 1. inspired
  - 2. energetic
  - 3. admired
  - 4. disappointed

### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

I have a recurring dream. Actually, I have a few: one is about dismembering a body , I'd rather not get into it, but the (1) \_\_\_\_\_ pertinent one is about college. It's the end of the semester, and I suddenly (2) \_\_\_\_\_ that there is a class I forgot to attend, ever, and now I have to sit for the final exam. I wake up panicked, my GPA in peril. How could I have done this? Why do I so (3) \_\_\_\_\_ dissatisfy myself? Then I remember I haven't been in college in more than a decade.

Someone with (4) \_\_\_\_\_ knowledge of my academic career might point out that this nightmare scenario is not that far removed from my actual collegiate experience, and that at certain times in my life, it did not take the magic of slumber to find me completely unprepared for a final. And, well, (5) \_\_\_\_\_ of what may or may not be true of my personal scholastic rigour, I suspect the school-stress dream is quite a common one.

### SubQuestion No : 21

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans
- 1. better
  - 2. best
  - 3. strong
  - 4. more

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

I have a recurring dream. Actually, I have a few: one is about dismembering a body , I'd rather not get into it, but the (1) \_\_\_\_\_ pertinent one is about college. It's the end of the semester, and I suddenly (2) \_\_\_\_\_ that there is a class I forgot to attend, ever, and now I have to sit for the final exam. I wake up panicked, my GPA in peril. How could I have done this? Why do I so (3) \_\_\_\_\_ dissatisfy myself? Then I remember I haven't been in college in more than a decade.

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**SubQuestion No : 22****Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. realise
  - 2. praise
  - 3. offer
  - 4. promise

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

I have a recurring dream. Actually, I have a few: one is about dismembering a body , I'd rather not get into it, but the (1) \_\_\_\_\_ pertinent one is about college. It's the end of the semester, and I suddenly (2) \_\_\_\_\_ that there is a class I forgot to attend, ever, and now I have to sit for the final exam. I wake up panicked, my GPA in peril. How could I have done this? Why do I so (3) \_\_\_\_\_ dissatisfy myself? Then I remember I haven't been in college in more than a decade.

Someone with (4) \_\_\_\_\_ knowledge of my academic career might point out that this nightmare scenario is not that far removed from my actual collegiate experience, and that at certain times in my life, it did not take the magic of slumber to find me completely unprepared for a final. And, well, (5) \_\_\_\_\_ of what may or may not be true of my personal scholastic rigour, I suspect the school-stress dream is quite a common one.

**SubQuestion No : 23****Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. unpredictability
  - 2. consistently
  - 3. conflictingly
  - 4. clumsily

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

I have a recurring dream. Actually, I have a few: one is about dismembering a body , I'd rather not get into it, but the (1) \_\_\_\_\_ pertinent one is about college. It's the end of the semester, and I suddenly (2) \_\_\_\_\_ that there is a class I forgot to attend, ever, and now I have to sit for the final exam. I wake up panicked, my GPA in peril. How could I have done this? Why do I so (3) \_\_\_\_\_ dissatisfy myself? Then I remember I haven't been in college in more than a decade.

Someone with (4) \_\_\_\_\_ knowledge of my academic career might point out that this nightmare scenario is not that far removed from my actual collegiate experience, and that at certain times in my life, it did not take the magic of slumber to find me completely unprepared for a final. And, well, (5) \_\_\_\_\_ of what may or may not be true of my personal scholastic rigour, I suspect the school-stress dream is quite a common one.

**SubQuestion No : 24****Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. instigate
  - 2. distant
  - 3. remote
  - 4. bleak

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

I have a recurring dream. Actually, I have a few: one is about dismembering a body , I'd rather not get into it, but the (1) \_\_\_\_\_ pertinent one is about college. It's the end of the semester, and I suddenly (2) \_\_\_\_\_ that there is a class I forgot to attend, ever, and now I have to sit for the final exam. I wake up panicked, my GPA in peril. How could I have done this? Why do I so (3) \_\_\_\_\_ dissatisfy myself? Then I remember I haven't been in college in more than a decade.

Someone with (4) \_\_\_\_\_ knowledge of my academic career might point out that this nightmare scenario is not that far removed from my actual collegiate experience, and that at certain times in my life, it did not take the magic of slumber to find me completely unprepared for a final. And, well, (5) \_\_\_\_\_ of what may or may not be true of my personal scholastic rigour, I suspect the school-stress dream is quite a common one.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. nevertheless
  - 2. notwithstanding
  - 3. regardless
  - 4. inasmuch

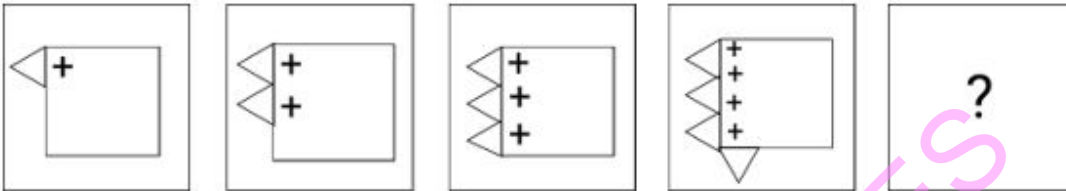
KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

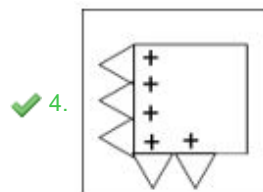
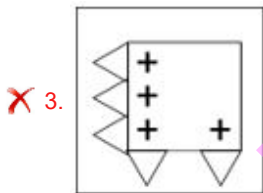
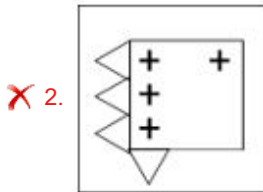
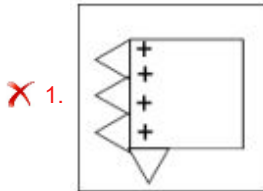
Exam Date	17/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Identify the figure given in the options which when put in place of '?' will logically complete the series.



**Ans**



**Q.2** 34 is related to 191 by certain logic. Following the same logic, 56 is related to 301. To which of the following is 63 related, following the same logic?  
 (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- ✗ 1. 340
  - ✗ 2. 386
  - ✓ 3. 336
  - ✗ 4. 319

Q.3 In a certain code language,

'A + B' means 'A is the mother of B';

'A - B' means 'A is the brother of B';

'A × B' means 'A is the wife of B' and

'A ÷ B' means 'A is the father of B'.

Based on the above, how is 5 related to 2 if '5 ÷ 1 × 3 ÷ 4 - 2'?

- Ans
- 1. Father's mother
  - 2. Father's father
  - 3. Mother's mother
  - 4. Mother's father

Q.4 27 is related to 119 following a certain logic. Following the same logic, 33 is related to 143. To which of the following is 42 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 153
  - 2. 188
  - 3. 179
  - 4. 162

Q.5 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

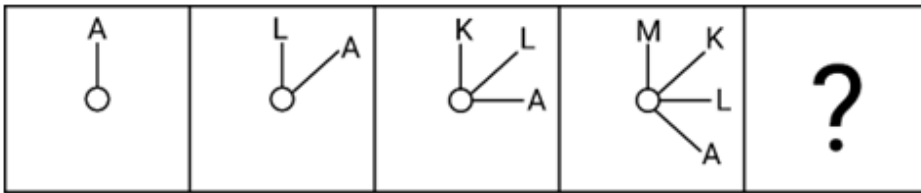
Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans
- 1. HLJ
  - 2. GIK
  - 3. LPN
  - 4. BFD

Q.6 What will come in place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $63 \times 9 + 21 - 4 \div 5 = ?$

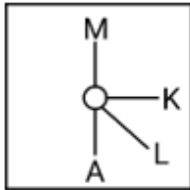
- Ans
- 1. 4
  - 2. 7
  - 3. 6
  - 4. 5

Q.7 Identify the figure given in the options which when put in place of ? will logically complete the series.

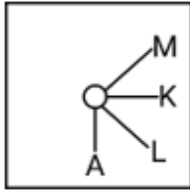


Ans

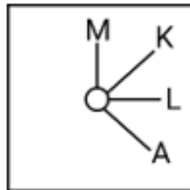
✗ 1.



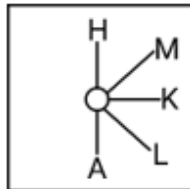
✗ 2.



✗ 3.



✓ 4.



Q.8 Select the number from among the given options that can replace the question mark (?) in the following series. 949, 1006, 1066, 1129, 1195, ?

Ans ✗ 1. 1233

✓ 2. 1264

✗ 3. 1244

✗ 4. 1254

Q.9 In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All computers are printers.

Some printers are laptops.

All laptops are mobiles.

Conclusions:

I. Some printers are computers.

II. Some laptops are printers.

III. Some mobiles are laptops.

Ans ✗ 1. Only conclusion III follows.

✗ 2. Only conclusions II and III follow.

✓ 3. All the conclusions follow.

✗ 4. Only conclusions I and III follow.



Q.10 'ACKO' is related to 'ZXPL' in a certain way based on the English alphabetical order. In the same way, 'HIND' is related to 'SRMW'. To which of the following is 'PUKE' related, following the same logic?

- Ans
- 1. JGQW
  - 2. JGPW
  - 3. LFQV
  - 4. KFPV

Q.11 In a certain code language, 'What you think you become' is written as 'Fe Mo Su Ta Za' and 'What you think you achieve' is written as 'Mo Su Te Fe Za'. How will 'achieve' be written in that language?

- Ans
- 1. Za
  - 2. Mo
  - 3. Te
  - 4. Fe

Q.12 'Noise' is related to 'Silence' in the same way as 'Light' is related to '\_\_\_\_\_'.

- Ans
- 1. Radiant
  - 2. Warmth
  - 3. Brightness
  - 4. Darkness

Q.13 Which of the following terms will replace the question mark (?) in the given series?  
EQBY, GPDx, ?, KNHV, MMJU

- Ans
- 1. IOFW
  - 2. IPFW
  - 3. HOFW
  - 4. IOEW

Q.14 Select the number that will come in the place of the question mark(?), if '+' and '-' are interchanged and 'x' and '÷' are interchanged

$$31 \div 3 - 186 \times 6 + 17 = ?$$

- Ans
- 1. 103
  - 2. 96
  - 3. 118
  - 4. 107

Q.15 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements:

Some telephones are curtains.

All curtains are lamps.

No lamps is books.

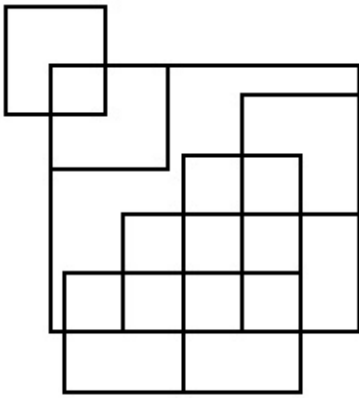
Conclusions:

(I) All lamps are telephones.

(II) No books is lamps.

- Ans
- 1. Only conclusion (I) is follow
  - 2. Only conclusion (II) is follow
  - 3. Neither conclusion (I) nor (II) is follow
  - 4. Both conclusions (I) and (II) are follow

Q.16 How many squares are there in the given figure?



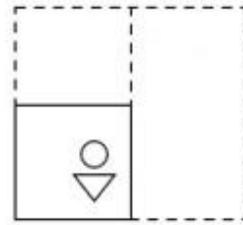
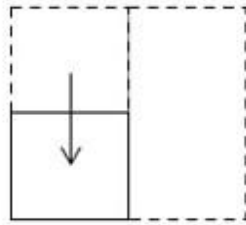
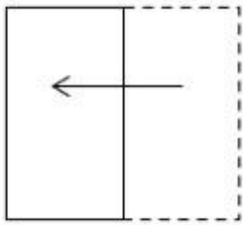
- Ans
- 1. 17
  - 2. 20
  - 3. 18
  - 4. 19

Q.17 The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 40 : 52
  - 2. 45 : 54
  - 3. 35 : 42
  - 4. 55 : 66

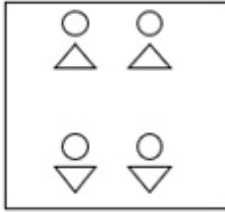
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Q.18 A paper is folded and cut as shown below. How will it appear when unfolded?

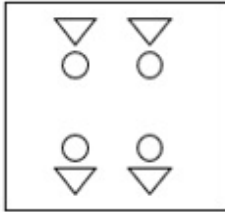


Ans

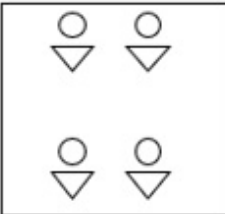
✗ 1.



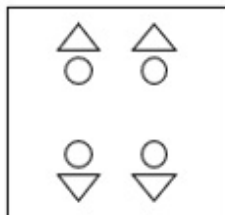
✗ 2.



✗ 3.



✓ 4.



Q.19 In a certain code language, 'TIDE' is coded as '9457' and 'DENT' is coded as '7593'. What is the code for 'N' in that language?

Ans ✗ 1. 5

✗ 2. 7

✓ 3. 3

✗ 4. 9

Q.20 Each of the letters in the word 'LASTING' is arranged in the English alphabetical order. How many letters are there in the English alphabetical series between the letter which is second from the left end and the one which is fourth from the right end in the new letter-cluster thus formed?

Ans ✗ 1. Five

✗ 2. Six

✗ 3. Three

✓ 4. Four

Q.21 A transparent sheet with a pattern is given in the following figure. Identify from amongst the options as to how the pattern would appear when the transparent sheet is folded at the middle horizontal line.



Ans

✗ 1.



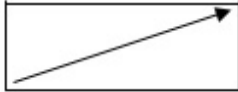
✗ 2.



✓ 3.



✗ 4.



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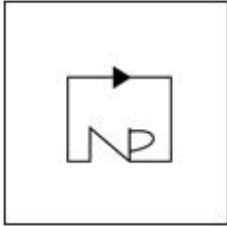
Q.22 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



(X)

Ans

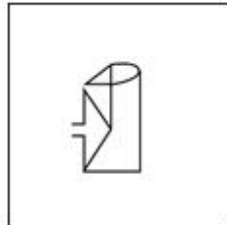
✗ 1.



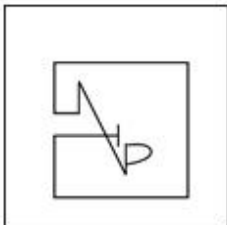
✗ 2.



✓ 3.



✗ 4.



Q.23 Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

M N \_ O J K M \_ Q O J K \_ N Q \_ J K M N Q O \_ K M N

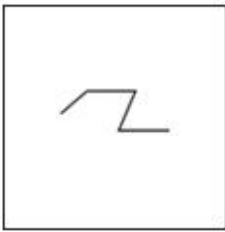
- Ans
- ✗ 1. QMNJO
  - ✗ 2. QNJMO
  - ✗ 3. QNMJO
  - ✓ 4. QNMOJ

Q.24 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

8 : 79  
 6 : 51

- Ans
- ✓ 1. 9 : 96
  - ✗ 2. 5 : 39
  - ✗ 3. 4 : 32
  - ✗ 4. 7 : 62

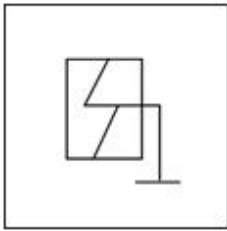
Q.25 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



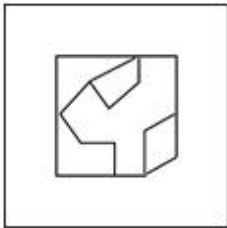
(X)

Ans

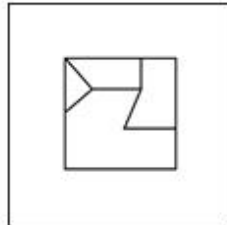
✗ 1.



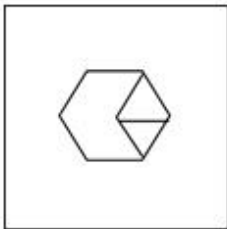
✗ 2.



✓ 3.



✗ 4.



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Section : General Awareness

Q.1 Which of the following countries has the highest Hindu population after India?

- Ans
- ✗ 1. Bhutan
  - ✗ 2. Sri Lanka
  - ✗ 3. Myanmar
  - ✓ 4. Nepal

Q.2 Which of the following statements about the aims of National Mission for Sustainable Agriculture (NMSA) of India is/are correct?

- 1.To make agriculture more productive.
- 2.To make agriculture more sustainable.
- 3.To promote organic farming.

- Ans
- ✗ 1. Only 1 is correct.
  - ✗ 2. Only 2 and 3 are correct.
  - ✓ 3. 1, 2 and 3 are correct.
  - ✗ 4. Only 1 and 2 are correct.

**Q.3** Who among the following sports persons is designated as brand ambassador for Nikshay Mitra, an initiative under Pradhan Mantri TB Mukh Bharat Abhiyaan by Ministry of Health and Family welfare of GOI in November 2022?

- Ans**
- 1. Mary Kom
  - 2. Abhinav Bindra
  - 3. Pullela Gopichand
  - 4. Deepa Malik

**Q.4** What is subtracted from GDP to arrive at NDP?

- Ans**
- 1. Subsidies
  - 2. Depreciation
  - 3. Net indirect taxes
  - 4. Net factor income from abroad

**Q.5** Indira PP Bora is a Padma Shri Awardee 2020 for her contribution to which Indian classical dance?

- Ans**
- 1. Sattriya
  - 2. Kathak
  - 3. Kuchipudi
  - 4. Bharatanatyam

**Q.6** Follow On is related to which of the following cricket formats?

- Ans**
- 1. Only T20 matches
  - 2. Only Test Matches
  - 3. Only One Day matches
  - 4. Both test and One-day matches

**Q.7** Which of the following is NOT a halogen gas?

- Ans**
- 1. F
  - 2. He
  - 3. Cl
  - 4. Br

**Q.8** Which of the following articles from Directive Principles of state policy mentions about organization of Village Panchayats?

- Ans**
- 1. Article 38
  - 2. Article 42
  - 3. Article 40
  - 4. Article 36

**Q.9** Who among the following is a Sarod player popularly known as 'Sarod Samrat'?

- Ans**
- 1. Pandit Kishan Maharaj
  - 2. Pandit Ravi Shankar
  - 3. Ustad Amjad Ali Khan Bangash
  - 4. Pandit Shivkumar Sharma

**Q.10** Who among the following rulers built five astronomical observatories at different places in north India?

- Ans**
- 1. Sawai Mansingh
  - 2. Maharana Pratap
  - 3. Sawai Jaisingh II
  - 4. Madho Singh

**Q.11 Which of the following festivals is celebrated in Madhya Pradesh?**

- Ans**
- 1. Thaipusam Festival
  - 2. Jaisalmer Desert Festival
  - 3. Bihu Festival
  - 4. Khajuraho Dance Festival

**Q.12 Deimachus who was a Greek ambassador came to India during the reign of the Mauryan king, \_\_\_\_\_.**

- Ans**
- 1. Shatadhanvan
  - 2. Bindusara
  - 3. Ashoka
  - 4. Chandragupta Maurya

**Q.13 Which of the following does NOT belong to the category of Porifera?**

- Ans**
- 1. Hydra
  - 2. Sycon
  - 3. Spongilla
  - 4. Euplectella

**Q.14 Which is a serious contagious bacterial infection that usually affects the mucous membranes of the nose and throat?**

- Ans**
- 1. Meningococcal
  - 2. Diphtheria
  - 3. Shigellosis
  - 4. Chlamydia

**Q.15 The Maharashtra Bhushan was conferred upon \_\_\_\_\_ in the year 2002.**

- Ans**
- 1. Pandit Ravi Shankar
  - 2. Pandit Bhimsen Joshi
  - 3. Pandit Jasraj
  - 4. Pandit Hari Prasad Chaurasia

**Q.16 Which article of the Constitution of India lays down that it shall be the duty of the Advocate-General to give advice to the Government of the State upon legal matters?**

- Ans**
- 1. Article 168
  - 2. Article 165
  - 3. Article 167
  - 4. Article 166

**Q.17 What is the tenure of office for the Chief Election Commissioner?**

- Ans**
- 1. 6 years or up to the age of 65 years
  - 2. 5 years or up to the age of 65 years
  - 3. 5 years or up to the age of 60 years
  - 4. 6 years or up to the age of 60 years

**Q.18 What was a significant negative environmental impact of the Green Revolution?**

- Ans**
- 1. Deforestation
  - 2. Soil degradation
  - 3. Increase in air pollution
  - 4. Ozone layer depletion



**Q.19** Which of the following peninsular rivers falls into the Arabian Sea?

- Ans**
- 1. Mahanadi river
  - 2. Krishna river
  - 3. Sabarmati river
  - 4. Godavari river

**Q.20** In the ancient temple of Mahadev at Mahabaleshwar, the spout emerging from the mouth of a cow statue is the source of which river basin?

- Ans**
- 1. Kaveri
  - 2. Krishna
  - 3. Godavari
  - 4. Narmada

**Q.21** Which of the following animals was the emblem of the Chola dynasty?

- Ans**
- 1. Wolf
  - 2. Horse
  - 3. Elephant
  - 4. Tiger

**Q.22** Samata Sainik Dal was formed in 1927 by whom among the following personalities?

- Ans**
- 1. Savitribai Phule
  - 2. BR Ambedkar
  - 3. Mahatma Gandhi
  - 4. Narayana Guru

**Q.23** On 29<sup>th</sup> October 2020, the Ministry of Science and Technology launched the SERB-POWER Scheme. What is the objective of the scheme?

- Ans**
- 1. To allow reservation for women in the Parliament and Judiciary
  - 2. To strengthen the solar programme of India with France
  - 3. To mitigate gender disparity in science and engineering research funding in various academic programmes and laboratories
  - 4. To allow reservation for women in the Ministry of Science and Technology

**Q.24** Which of the following was the mascot of the Khelo India University Games 2022?

- Ans**
- 1. Bheema
  - 2. Moga
  - 3. Jitu
  - 4. Saavaj

**Q.25** The chemical formula of glucose is  $C_6H_{12}O_6$ . The weight % of carbon in glucose is:

- Ans**
- 1. 40
  - 2. 72
  - 3. 53
  - 4. 25

Q.1 Study the following table and answer the question that follows.  
Expenditures of a Company (in Lakh Rupees) Per Annum over Different Heads in the Given Years

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
2010	310	98	3.84	23.4	83
2011	324	112	3.68	32.5	108
2012	338	101	3.00	41.6	74
2013	346	133	2.52	36.4	88
2014	410	142	3.96	49.4	98

The total amount of bonus paid by the company during the given period is approximately what percentage of the total amount of salary paid during this period? (Rounded off to the nearest integer.)

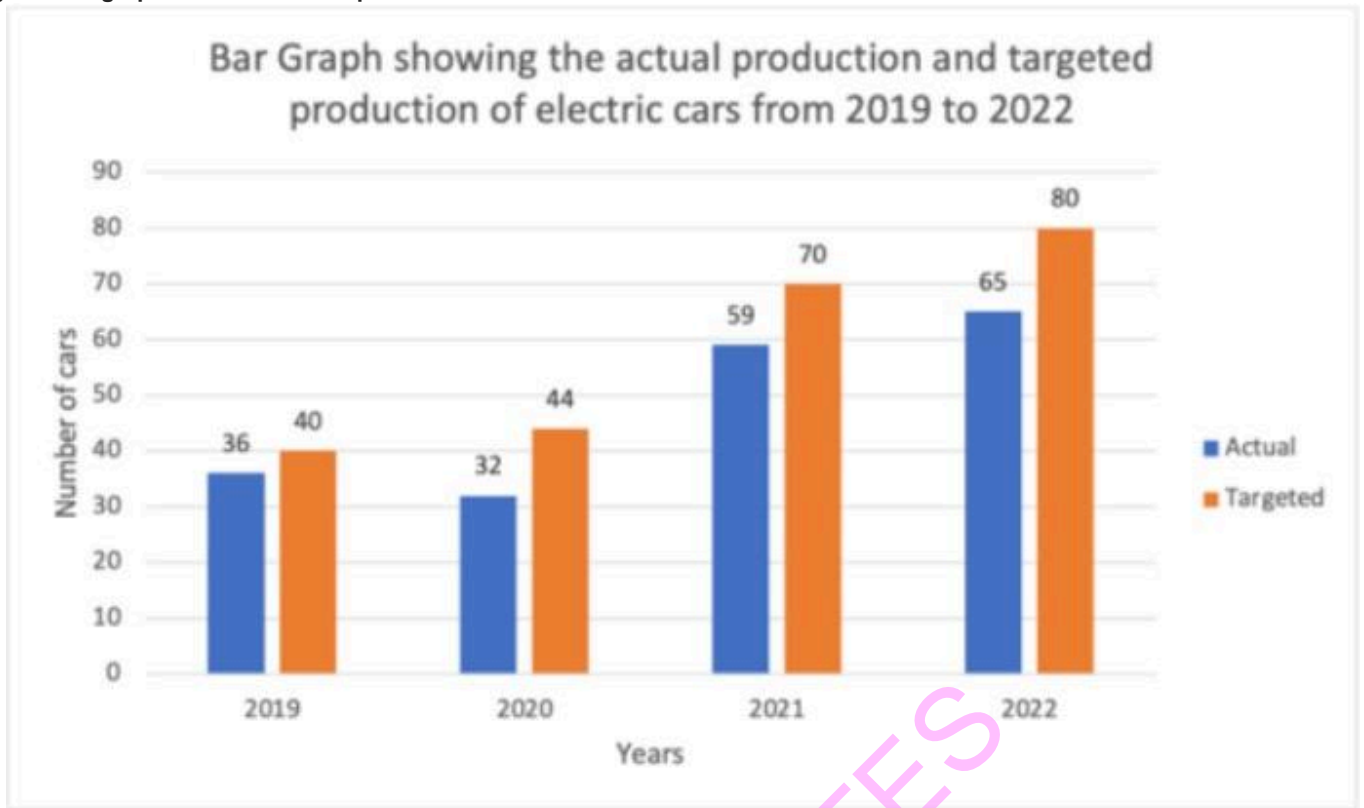
- Ans
- 1. 2%
  - 2. 1.5%
  - 3. 2.5%
  - 4. 1%

Q.2 Two candidates contested in an election. 80% of the voters cast their votes, out of which 5% of the polled votes were invalid. The winning candidate got 70% of valid votes and won by a majority of 36,480 votes. Find the total number of voters.

- Ans
- 1. 1,15,000
  - 2. 1,20,000
  - 3. 1,25,000
  - 4. 1,18,000

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Q.3 The given bar graph shows the actual production and targeted production of electric cars from 2019 to 2022. Study the given bar graph and answer the question that follows.



What is the ratio of the total targeted production of cars in 2021 and 2022 to the actual production of cars from 2019 to 2022 taken together?

- Ans
- 1. 32 : 25
  - 2. 25 : 36
  - 3. 36 : 25
  - 4. 25 : 32

Q.4 M and N are, respectively, the centres of two circles of radii 12 cm and 8 cm. QR is the common tangent to the circles. If MN = 16 cm, then what will be the length of QR?

- Ans
- 1.  $5\sqrt{17}$  cm
  - 2.  $4\sqrt{15}$  cm
  - 3.  $3\sqrt{19}$  cm
  - 4.  $6\sqrt{8}$  cm

Q.5 Simplify the following.

$$\left(5 - \frac{15}{16}\right) \times 1\frac{12}{13}$$

- Ans
- 1.  $7\frac{13}{16}$
  - 2.  $7\frac{11}{16}$
  - 3.  $5\frac{13}{16}$
  - 4.  $5\frac{11}{16}$

Q.6 A group of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 76. What is the average score of the group?

- Ans
- 1. 71.4
  - 2. 68.4
  - 3. 69.4
  - 4. 70.4

Q.7 AB and CD are two parallel chords drawn in a circle with centre O. The distance between the two chords is 21 cm. If the lengths of AB and CD are 24 cm and 18 cm, respectively, then the radius of the circle is equal to:

- Ans
- 1. 15 cm
  - 2. 20 cm
  - 3. 18 cm
  - 4. 24 cm

Q.8 A cistern can be filled by two pipes in 8 minutes and 10 minutes, separately. Both the pipes are opened together for a certain time, but due to an obstruction, only  $\frac{5}{8}$  of the full quantity of water flowed through the former pipe and  $\frac{3}{5}$  through the latter pipe. However, the obstruction was suddenly removed, and the cistern was filled in 3 minutes from that moment. How long did it take before the full flow began?

- Ans
- 1.  $3\frac{1}{16}$  minutes
  - 2.  $2\frac{6}{17}$  minutes
  - 3.  $9\frac{6}{7}$  minutes
  - 4.  $2\frac{30}{37}$  minutes

Q.9 If  $a = x\cos\theta + y\sin\theta$  and  $b = x\sin\theta - y\cos\theta$ , then  $a^2 + b^2$  is equal to:

- Ans
- 1.  $x + y$
  - 2.  $x^2 - y^2$
  - 3.  $x^2 + y^2$
  - 4.  $x - y$

Q.10 For what value of k, the system of equations  $4x + 12y + 36 = 0$  and  $5x + ky + 45 = 0$  has an infinite number of solutions?

- Ans
- 1. 20
  - 2. 25
  - 3. 22
  - 4. 15

Q.11 A motorboat takes 18 hours to go downstream, and it takes 36 hours to return the same distance. Find the ratio of the speed of the boat in still water to the speed of the stream.

- Ans
- 1. 3 : 1
  - 2. 2 : 3
  - 3. 2 : 1
  - 4. 3 : 2

Q.12 In right-angled triangle ABC,  $\angle C = 90^\circ$ , CM is perpendicular on AB. If AB = 18 cm and BM = 6 cm, then find the length of CM.

- Ans
- 1.  $6\sqrt{2}$  cm
  - 2.  $4\sqrt{2}$  cm
  - 3.  $7\sqrt{2}$  cm
  - 4.  $2\sqrt{2}$  cm

Q.13 Find the least value of x for which  $57x716$  is divisible by 9.

Ans  1. 1

2. 9

3. 0

4. 8

Q.14 In a rhombus PQRS, O is any interior point such that  $OP = OR$ . What is the degree measure of  $\angle SOQ$ ?

Ans  1.  $120^\circ$

2.  $180^\circ$

3.  $240^\circ$

4.  $200^\circ$

Q.15 A shopkeeper allows 40% discount on his goods. He further gives 20% discount. What is the single discount equivalent to these two successive discounts?

Ans  1. 62%

2. 52%

3. 60%

4. 50%

Q.16 The following table shows the categorisation of 100 students based on their marks in Physics and Chemistry in an examination.

Subject	Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	0 and above
Physics	9	32	80	92	100
Chemistry	4	21	66	81	100

If a minimum of 40% marks in Chemistry is required to pursue higher studies in Chemistry, how many students will be eligible to pursue higher studies in Chemistry?

Ans  1. 66

2. 25

3. 45

4. 21

Q.17 If  $8a^3 + b^3 + 27c^3 = 18abc$ , then the relation among a, b and c is:

Ans  1.  $b + 3c = 2a$

2.  $2a + b = 3c$

3.  $2a + 3c = b$

4.  $b + 3c = -2a$

Q.18 An article passing through two hands is sold at a total profit of 40% of the original cost price. If the first dealer makes a profit of 30%, then the profit percentage made by the second dealer is:

Ans  1.  $8\frac{6}{13}\%$

2.  $6\frac{3}{13}\%$

3.  $7\frac{1}{13}\%$

4.  $7\frac{9}{13}\%$

Q.19 In a company, the ratio of men and women is 5 : 3, respectively. When 150 additional women are employed in the company, the ratio becomes 5 : 4. How many men are employed in the company?

- Ans
- 1. 850
  - 2. 750
  - 3. 550
  - 4. 950

Q.20 If  $\sin A + \cos A = \frac{1}{2\sqrt{2}}$ , then find the value of  $\sin^4 A + \cos^4 A$ .

- Ans
- 1.  $\frac{79}{128}$
  - 2.  $\frac{7}{13}$
  - 3.  $\frac{79}{126}$
  - 4.  $\frac{5}{13}$

Q.21 Find the value of  $\left[ \frac{4 \cos(90 - \theta) \sin^2(90 + \theta) - 4 \sin(90 + \theta) \cos^2(90 - \theta)}{\cos\left(\frac{180 + 8\theta}{2}\right)} \right]$ .

- Ans
- 1. -1
  - 2. 1
  - 3. 2
  - 4. 0

Q.22 If  $a^3 + 3a^2 + 3a = 7$ , then the value of  $a^2 + 2a$  is:

- Ans
- 1. 3
  - 2. 1
  - 3. 2
  - 4. 4

Q.23 What is the rate of interest per annum for simple interest at which ₹1,040 amounts to ₹1,230 in  $1\frac{1}{2}$  years?

- Ans
- 1.  $11\frac{7}{39}\%$
  - 2.  $10\frac{7}{39}\%$
  - 3.  $12\frac{7}{39}\%$
  - 4.  $13\frac{7}{39}\%$

Q.24 The table shows the production of different types of bikes (in thousands).

Years	2015	2016	2017	2018
Bikes				
A	157	194	271	290
B	138	225	146	206
C	255	227	213	239
D	196	304	162	224

The number of years, in which the production of bikes of type C is less than the average production of type A bikes over the years is

- Ans
- 1. 4%
  - 2. 3%
  - 3. 1%
  - 4. 2%

Q.25 If the height and diameter of a cylinder are 12 cm and 28 cm, respectively, then find the ratio of the total surface area to the curved surface area.

- Ans
- 1. 13 : 5
  - 2. 10 : 3
  - 3. 13 : 6
  - 4. 11 : 6

Section : English Comprehension

Q.1 Select the most appropriate meaning of the following idiom.

To bring to light

- Ans
- 1. To engage in conversation
  - 2. To lighten
  - 3. To disclose
  - 4. To disengage

Q.2 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- (a) false news websites
- (b) spreading propaganda about politics
- (c) thrive because the advertisements and politicians
- (d) and social networking sites
- (e) make a lot of money

- Ans
- 1. aecbd
  - 2. adcbe
  - 3. adecb
  - 4. aedcb

**Q.3** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- P) willing to go
- Q) is not
- R) my son
- S) camping

- Ans**
- 1. RQPS
  - 2. SPRQ
  - 3. PQRS
  - 4. QRSP

**Q.4** Select the most appropriate homophone to fill in the blank.

The ointment will help to \_\_\_\_\_ the wound.

- Ans**
- 1. he'll
  - 2. heel
  - 3. heal
  - 4. kneel

**Q.5** Select the most appropriate ANTONYM of the given word.  
Attack

- Ans**
- 1. Ambush
  - 2. Defence
  - 3. Production
  - 4. Engagement

**Q.6** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. It was as simple as announcing what you have in your store or the services you offer in your premises.
- B. Over the years, advertising has evolved into a major industry that goes beyond informing to persuading and influencing.
- C. Advertising was initially meant to make people aware of the goods available in the market.
- D. It is a form of brainwashing consumers.

- Ans**
- 1. BADC
  - 2. ADBC
  - 3. DABC
  - 4. CABD

**Q.7** Select the most appropriate ANTONYM of the underlined word.  
We should plan our actions judiciously before going to war.

- Ans**
- 1. Irreverent
  - 2. Irrational
  - 3. Irrelevant
  - 4. Irritatingly

**Q.8** Select the sentence that has a grammatical error.

- Ans**
- 1. It is said that Joseph was not ready to go to war.
  - 2. Karl Marx was a renowned social scientist.
  - 3. Indian force are known for their loyalty and integrity.
  - 4. It is impossible to wake Christine up in the morning.



Q.9 Select the correct meaning of the underlined idiom in the following sentence.

Rina pulled a long face since her husband had not bought her a diamond necklace on their anniversary.

- Ans
- 1. To be euphoric
  - 2. To be ecstatic
  - 3. To look saddened
  - 4. To be electrified

Q.10 Select the correct spelling to fill in the blank.

The thought of eating half-cooked food under compulsion fills me with \_\_\_\_\_.

- Ans
- 1. ripugnance
  - 2. repegnance
  - 3. repugnance
  - 4. repugnence

Q.11 Select the INCORRECTLY spelt word from the given sentence .

The resturant offers a wide variety of dishes.

- Ans
- 1. variety
  - 2. resturant
  - 3. dishes
  - 4. offers

Q.12 Select the option that expresses the given sentence in passive voice.

They are building a new hospital in the city.

- Ans
- 1. A new hospital was built in the city by them.
  - 2. A new hospital has been built in the city by them.
  - 3. A new hospital will be built in the city by them.
  - 4. A new hospital is being built in the city by them.

Q.13 Select the most appropriate option to substitute the underlined part of the given sentence. If there is no need to substitute it, select 'No substitution'.

As the rulers of the planet, humans like to think that it is the largest creatures that will emerge victorious from the struggle for survival.

- Ans
- 1. No substitution
  - 2. it is the most large creatures
  - 3. they are a largest creature
  - 4. they are the largest creatures

Q.14 Select the most appropriate option to substitute the underlined segment in the given sentence.

Experts acknowledged that some counterfeiting of document techniques are virtually impossible to detect.

- Ans
- 1. fiasco
  - 2. forgery
  - 3. impromptu
  - 4. frenzy

Q.15 Select the option that expresses the given sentence in passive voice.

They have built a new bridge across the river.

- Ans
- 1. A new bridge has been built across the river by them.
  - 2. A new bridge by them has been built across the river.
  - 3. A new bridge has built across the river by them.
  - 4. The river has been built a new bridge by them.

Q.16 Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.

The chef requires \_\_\_\_\_ vegetables for the salad. [stale]

- Ans
- 1. green
  - 2. fresh
  - 3. cut
  - 4. leafy

Q.17 Select the most appropriate ANTONYM of the underlined word in the sentence given below.  
I refuse to let anything come in the way of my dreams.

- Ans
- 1. repress
  - 2. balk
  - 3. accord
  - 4. permit

Q.18 The following sentence has been split into four segments. Identify the segment that contains an error.

The principal gave up / the prizes to / the winners on / Republic Day.

- Ans
- 1. The principal gave up
  - 2. the winners on
  - 3. the prizes to
  - 4. Republic Day

Q.19 Select the option that can be used as a one-word substitute for the underlined group of words in the following sentence.  
Almost immediately, they heard the high shrill piercing cry of tires on the side road.

- Ans
- 1. beseech
  - 2. creche
  - 3. screech
  - 4. bleach

Q.20 Select the most appropriate ANTONYM of the given word.  
Synthetic

- Ans
- 1. Artificial
  - 2. Imitation
  - 3. Processed
  - 4. Natural

### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The adverse (1)\_\_\_\_\_ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)\_\_\_\_\_ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)\_\_\_\_\_ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)\_\_\_\_\_ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)\_\_\_\_\_ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

### SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank number 1.

- Ans
- 1. renounce
  - 2. affects
  - 3. effects
  - 4. practice

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The adverse (1)\_\_\_\_\_ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)\_\_\_\_\_ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)\_\_\_\_\_ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)\_\_\_\_\_ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)\_\_\_\_\_ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. adaptive
  - 2. adoptive
  - 3. minimum
  - 4. affective

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The adverse (1)\_\_\_\_\_ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)\_\_\_\_\_ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)\_\_\_\_\_ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)\_\_\_\_\_ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)\_\_\_\_\_ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. regard
  - 2. fast
  - 3. fixate
  - 4. irregular

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The adverse (1)\_\_\_\_\_ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)\_\_\_\_\_ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)\_\_\_\_\_ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)\_\_\_\_\_ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)\_\_\_\_\_ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. depend from
  - 2. depend at
  - 3. depend on
  - 4. depend in

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The adverse (1)\_\_\_\_\_ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)\_\_\_\_\_ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)\_\_\_\_\_ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)\_\_\_\_\_ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)\_\_\_\_\_ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. optional
  - 2. secondary
  - 3. resistant
  - 4. imperative

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	17/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

\_ P \_ J \_ P \_ P \_ \_ P \_

- Ans
- 1. JPPJPJP
  - 2. PPJJJJJ
  - 3. JPJPJPJ
  - 4. JJPPPPJ

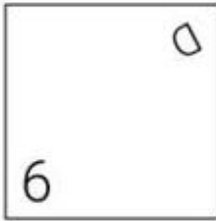
KD JOB UPDATES

Q.2 Identify the figure from among the given options which when put in place of the question mark (?) will logically complete the series.

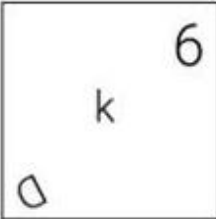
L	P	7	D	?
k	J	q	Γ	

Ans

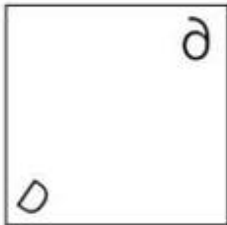
✗ 1.



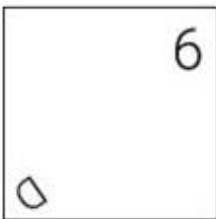
✗ 2.



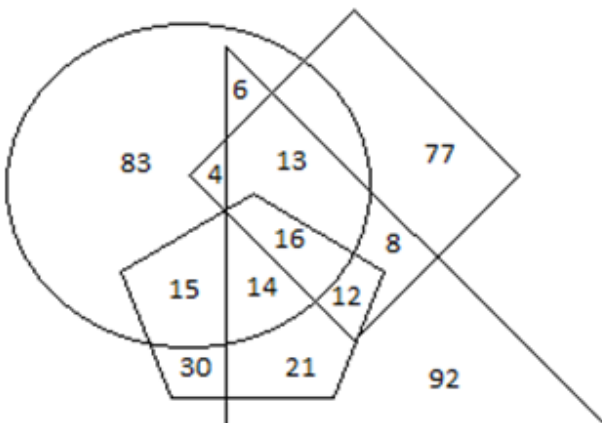
✗ 3.



✓ 4.



Q.3 The diagram given below has four different shapes, depicting different farmers of a small village, with different assets. The circle represents the farmers who own land of more than 100 yards, the pentagon represents farmers who own cows, the rhombus represents farmers who own goats, and the triangle represents farmers who own tractors.



How many farmers are there who have all four assets?

Ans ✗ 1. 14

✗ 2. 30

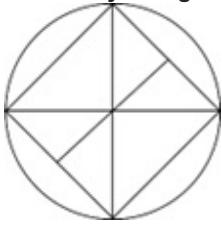
✓ 3. 16

✗ 4. 21

Q.4 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different. The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

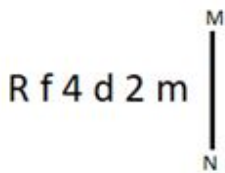
- Ans
- 1. NPRS
  - 2. KMOP
  - 3. UVXW
  - 4. EGIJ

Q.5 How many triangles are there in the given figure?



- Ans
- 1. 14
  - 2. 12
  - 3. 16
  - 4. 10

Q.6 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. m 2 b 4 † R
  - 2. m 5 b 4 † R
  - 3. m 2 P f 4 R
  - 4. R f 4 d 5 m

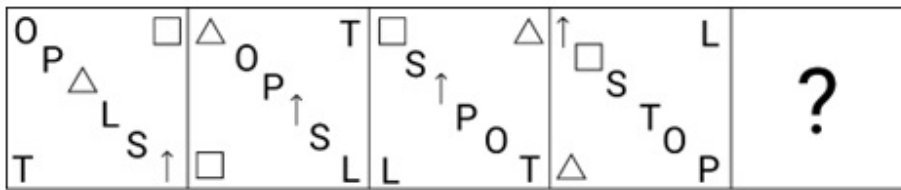
Q.7 In a certain code language,  
'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A x B' means 'A is the sister of B' and  
'A ÷ B' means 'A is the daughter of B'.  
Based on the above, if 'J + K ÷ L - T x R', then how is J related to L?

- Ans
- 1. Wife
  - 2. Sister
  - 3. Husband's sister
  - 4. Father's sister

Q.8 What will come in place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $6 \div 8 - 91 \times 13 + 30 = ?$

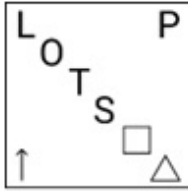
- Ans
- 1. 20
  - 2. 25
  - 3. 23
  - 4. 22

Q.9 Select the figure from among the given option that can replace the question mark (?) in the following series.

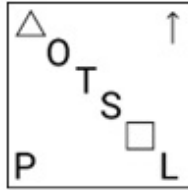


Ans

✗ 1.



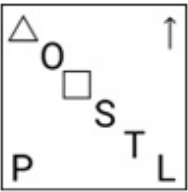
✓ 2.



✗ 3.



✗ 4.



Q.10 Which of the following terms will replace the question mark (?) in the given series?  
JKT, LJR, NIP, ?

- Ans
- ✗ 1. PHM
  - ✗ 2. PGO
  - ✗ 3. OGP
  - ✓ 4. PHN

Q.11 'Meek' is related to 'Bold' in the same way as 'Spend' is related to '\_\_\_\_\_'.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- ✗ 1. Donate
  - ✗ 2. Expend
  - ✗ 3. Pay
  - ✓ 4. Hoard

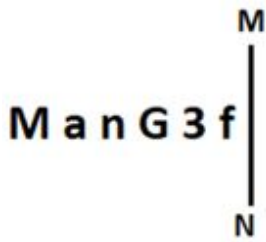
Q.12 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$99 \div 41 + 208 \times 2 - 35 = ?$$

- Ans
- ✓ 1. 3990
  - ✗ 2. 3890
  - ✗ 3. 3980
  - ✗ 4. 3390



Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. † ε G n s M
  - 2. † ε θ n s W
  - 3. † ε G u e M
  - 4. † ε θ n s M

Q.14 Select the triad in which the numbers are related in the same way as are the numbers of the given triads. (54, 65, 76), (48, 59, 70)  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. (27, 38, 50)
  - 2. (38, 49, 60)
  - 3. (31, 41, 53)
  - 4. (42, 57, 68)

Q.15 In a certain code language, 'OASIS' is written as 'RJTBN' and 'OBESE' is written as 'DTFCN'. How will 'OCCUR' be written in that language?

- Ans
- 1. VQDDN
  - 2. VQNDD
  - 3. QVNDD
  - 4. QVDDN

Q.16 Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some circles are rectangles.  
Some rectangles are squares.  
All squares are triangles.

Conclusions:

I. No circle is a triangle.  
II. Some rectangles are triangles.  
III. All rectangles are triangles.

- Ans
- 1. Both conclusion I and II follow
  - 2. Only conclusion II follows
  - 3. Only conclusion III follows
  - 4. Only conclusion I follows

Q.17 Each of the letters in the word 'MUSICAL' is arranged in the English alphabetical order. How many letters are there in the English alphabetical series between the letter which is third from the left end and the one which is third from the right end in the new letter-cluster thus formed?

- Ans
- 1. Three
  - 2. Two
  - 3. Five
  - 4. Four

Q.18 Select the term from among the given options that can replace the question mark (?) in the following series.  
YL 93, XK 88, WJ 83, VI 78, ?

- Ans
- 1. VG 74
  - 2. UH 72
  - 3. VI 74
  - 4. UH 73

Q.19 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1.  $86 - 41 - 38$
  - 2.  $118 - 93 - 161$
  - 3.  $33 - 15 - 12$
  - 4.  $52 - 36 - 56$

Q.20 Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
(23, 230, 5)  
(17, 272, 8)

- Ans
- 1. (14, 210, 5)
  - 2. (16, 336, 7)
  - 3. (18, 648, 9)
  - 4. (19, 304, 8)

Q.21 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

17 : 67  
21 : 79

- Ans
- 1. 33 : 110
  - 2. 34 : 118
  - 3. 42 : 100
  - 4. 23 : 69

Q.22 Select the number from among the given options that can replace the question mark (?) in the following series.  
1225, 1184, 1147, 1116, 1087, ?

- Ans
- 1. 1054
  - 2. 1078
  - 3. 1072
  - 4. 1064

Q.23 In a certain code language, 'RUG' is coded as 'EPS' and 'SIT' is coded as 'RQG'. How will 'COP' be coded in the same language?

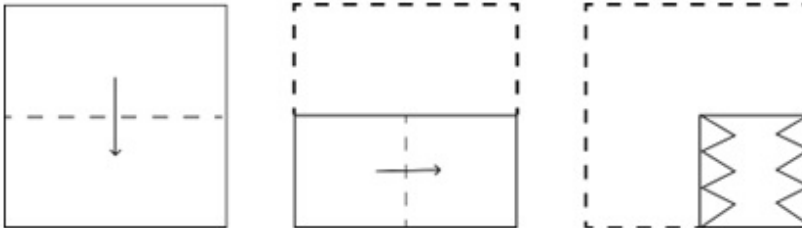
- Ans
- 1. MBO
  - 2. NBM
  - 3. NAM
  - 4. MBM

**Q.24** Six words Hand, Leg, Eyes, Nose, Mouth and Ear are written on different faces of a dice. Three positions of this dice are shown in the figure. Find the word on the face opposite to Hand.



- Ans**
- 1. Leg
  - 2. Nose
  - 3. Mouth
  - 4. Ear

**Q.25** A paper is folded and cut as shown below. How will it appear when unfolded?



**Ans**

- 1.
- 2.
- 3.
- 4.

**Section : General Awareness**

**Q.1** According to the Census of India 2011, 'Other Religions and Persuasions (ORP)' comprise how much of the population?

- Ans**
- 1. 3.9 million
  - 2. 7.9 million
  - 3. 5.9 million
  - 4. 9.9 million

**Q.2** When was the Rajiv Gandhi Khel Ratna Award renamed as Major Dhyan Chand Khel Ratna Award?

- Ans**
- 1. 6<sup>th</sup> August 2022
  - 2. 5<sup>th</sup> January 2022
  - 3. 6<sup>th</sup> August 2021
  - 4. 5<sup>th</sup> January 2021

**Q.3** Who among the following was appointed as the Governor of Jharkhand in February 2023?

- Ans**
- 1. CP Radhakrishnan
  - 2. Ramesh Bais
  - 3. T Gahlot
  - 4. RN Ravi

**Q.4** Where was the first women's international test cricket match hosted in India in 1976?

- Ans**
- 1. New Delhi
  - 2. Bangalore
  - 3. Mumbai
  - 4. Kolkata

**Q.5** Who among the following founded the Atmiya Sabha in 1814?

- Ans**
- 1. Keshab Chandra Sen
  - 2. Raja Rammohun Roy
  - 3. Ishwar Chandra Vidyasagar
  - 4. Debendranath Tagore

**Q.6** Kajari Mahotsav is primarily celebrated in which of the following districts of Uttar Pradesh?

- Ans**
- 1. Mirzapur
  - 2. Gorakhpur
  - 3. Kushi Nagar
  - 4. Jhansi

**Q.7** Matki dance is the famous folk dance associated with which of the following states?

- Ans**
- 1. Punjab
  - 2. Gujarat
  - 3. Madhya Pradesh
  - 4. Maharashtra

**Q.8** Which of the following is a species of tropical deciduous forests?

- Ans**
- 1. Palms
  - 2. Mahogany
  - 3. Teak
  - 4. Ebony

**Q.9** Which Lavani singer got Padma Shri 2022 by the President of India?

- Ans**
- 1. Sulochana Chavan
  - 2. Bela Shende
  - 3. Vaishali Samant
  - 4. Devaki Pandit

**Q.10** Which of the following is the most acidic?

- Ans**
- 1. HCOOH
  - 2. C<sub>2</sub>H<sub>5</sub>COOH
  - 3. C<sub>3</sub>H<sub>7</sub>COOH
  - 4. CH<sub>3</sub>COOH

**Q.11** The Maukharis ruled over which of the following cities in western Uttar Pradesh that over the time replaced Pataliputra as a political centre of north India?

- Ans**
- 1. Kannauj
  - 2. Bareilly
  - 3. Agra
  - 4. Kanpur

**Q.12** Which of the following is NOT a greenhouse gas?

- Ans**
- 1. Methane
  - 2. Carbon dioxide
  - 3. Nitrous oxide
  - 4. Nitric oxide

**Q.13** Which allotrope of carbon was discovered by Robert F Curl, Harold W Kroto and Richard E Smalley in 1985?

- Ans**
- 1. Graphene
  - 2. Lonsdaleite
  - 3. Carbophene
  - 4. Fullerene

**Q.14** Annapurna Devi is associated with which of the following musical instruments?

- Ans**
- 1. Rudra veena
  - 2. Taal
  - 3. Ektara
  - 4. Surbahar

**Q.15** Which of the following articles of the Constitution of India lays down that 'The allocation of seats in the Council of States to be filled by representatives of the States and of the Union territories shall be in accordance with the provisions in that behalf contained in the fourth Schedule'?

- Ans**
- 1. Article 81
  - 2. Article 82
  - 3. Article 83
  - 4. Article 80

**Q.16** In the year 1925, who extracted lipids from an erythrocyte sample and found that lipid monolayers are good for measuring molecular surface area versus lateral pressure?

- Ans**
- 1. Gorter and Grendel
  - 2. Carson and Eccles
  - 3. Avery and Buck
  - 4. Margulis and Ruska

Q.17 Identify the sequence of implementation of the following taxes.

I.Land revenue

II.Sales tax

III.MODVAT

IV.Service tax

- Ans
- 1. III, II, IV, I
  - 2. II, IV, I, III
  - 3. IV, II, I, III
  - 4. I, II, III, IV

Q.18 Under which of the following Pala king's patronage the Vikramshila university in 8<sup>th</sup> century India was founded?

- Ans
- 1. Gopala
  - 2. Mahipala I
  - 3. Devapala
  - 4. Dharmapala

Q.19 What is the amount of financial assistance provided per month to girl students studying in government schools under the 'Tamil Nadu Pudhumai Penn Scheme' launched by the Government of Tamil Nadu in 2023?

- Ans
- 1. ₹500 per month
  - 2. ₹3,000 per month
  - 3. ₹1,000 per month
  - 4. ₹2,000 per month

Q.20 Under Pradhan Mantri Fasal Bima Yojana, the maximum premium payable by the farmers will be \_\_\_\_\_ for all kharif food and oilseeds crops.

- Ans
- 1. 4%
  - 2. 2%
  - 3. 6%
  - 4. 8%

Q.21 What is the primary objective of the 'Standup India' initiative?

- Ans
- 1. To boost the manufacturing sector
  - 2. To promote digital transactions nationwide
  - 3. To facilitate bank loans for SC/ST and women entrepreneurs
  - 4. To support all types of startups

Q.22 Which fundamental duty applies on you when you see a few school students, on their educational trip to Humayun's tomb, writing their names on the walls?

- Ans
- 1. To safeguard public property
  - 2. To defend the country and render national service
  - 3. To uphold and protect the sovereignty, unity and integrity of India
  - 4. To protect and improve the natural environment

Q.23 In the second Round Table Conference, Mahatma Gandhi represented which of the following parties?

- Ans
- 1. Communist Party of India
  - 2. Indian National Congress
  - 3. All India Forward Bloc
  - 4. Muslim League

**Q.24** Through which routes is the majority of India's international trade carried out?

- Ans**
- 1. Railway and air
  - 2. Sea and air
  - 3. Only Railway
  - 4. Sea and railway

**Q.25** Which of the following options indicates the size of PPLO (Pleuro Pneumonia Like Organisms)?

- Ans**
- 1. About 30  $\mu\text{m}$
  - 2. About 20  $\mu\text{m}$
  - 3. About 0.1  $\mu\text{m}$
  - 4. About 10  $\mu\text{m}$

Section : Quantitative Aptitude

**Q.1** Find the length of the longest diagonal (in cm) of a cuboidal box of dimensions 1.2 cm  $\times$  1.3 cm  $\times$  1.5 cm (correct to two decimal places).

- Ans**
- 1. 2.22 cm
  - 2. 2.32 cm
  - 3. 2.23 cm
  - 4. 2.35 cm

**Q.2** If  $x$  is an integer such that  $x + \frac{1}{x} = \frac{65}{8}$ , then find the value of  $x - \frac{1}{x}$ .

- Ans**
- 1.  $\frac{63}{6}$
  - 2.  $\frac{63}{8}$
  - 3.  $\frac{36}{8}$
  - 4.  $\frac{32}{6}$

**Q.3** In a triangle, the lengths of sides are 6 units, 12 units and  $x$  units. How many possible integer values are there for  $x$ ?

- Ans**
- 1. 9
  - 2. 12
  - 3. 11
  - 4. 10

**Q.4** Arvind and Chetan started running simultaneously from the same point in the same direction on a circular track of length 210 m. If Arvind takes 180 seconds to complete one round, and Chetan takes 420 seconds to complete one round, after how much time will they meet for the first time at the starting point on the track?

- Ans**
- 1. 10 minutes
  - 2. 15 minutes
  - 3. 21 minutes
  - 4. 28 minutes

Q.5 The below table gives shares traded on Hyderabad, Mumbai, and Bengaluru stock exchanges (in ₹). Study the table and answer the question that follows.

Name of the company	Hyderabad		Mumbai		Bengaluru	
	High	Low	High	Low	High	Low
A	150	140	180	165	160	155
B	250	225	325	315	300	290
C	180	175	195	180	190	185
D	350	325	410	395	390	375

For C, the low rates of shares are less than the average of the low rates of shares of the same company, in the stock exchange(s) at \_\_\_\_\_.

- Ans
- 1. Mumbai
  - 2. Bengaluru
  - 3. Hyderabad
  - 4. Hyderabad and Mumbai

Q.6 If P is a digit such that 6954P is divisible by 11, then P equals:

- Ans
- 1. 2
  - 2. 8
  - 3. 6
  - 4. 7

Q.7 In a bank, 6% interest is given on the deposited amount. The bank then invests the money in the stock market and is able to earn ₹30,000 for every ₹3,00,000. How much money is the bank earning finally if the total amount deposited in the bank is ₹60,00,000?

- Ans
- 1. ₹3,00,000
  - 2. ₹6,40,000
  - 3. ₹2,40,000
  - 4. ₹3,60,000



Q.8 The following table shows the expenditure of a factory (in ₹ lakh) per annum on different heads over the given years.

Year/Expenditure Head	Salary	Transport	Bonus	Loan Interest
1998	125	38	8	25
1999	135	45	18	37
2000	149	57	37	39
2001	153	63	50	43

What was the average expenditure (in ₹ lakh) on transport per year that the factory had to pay during the given period?

- Ans
- 1. 56.63
  - 2. 48.75
  - 3. 50.75
  - 4. 45.58

Q.9 If  $\operatorname{cosec} x = \frac{5}{4}$ , then the value of  $\frac{5 \sin^2 x + 8 \cot^2 x}{27 \tan^2 x - 125 \cos^2 x}$  is:

- Ans
- 1.  $\frac{33}{91}$
  - 2.  $\frac{77}{30}$
  - 3.  $\frac{55}{87}$
  - 4.  $\frac{99}{47}$

Q.10 42 litres of milk at ₹25 per litre is mixed with 28 litres of milk at ₹40 per litre. Find the average price of the mixture.

- Ans
- 1. ₹31.5
  - 2. ₹32.5
  - 3. ₹32
  - 4. ₹31

Q.11 In triangle ABC, D is the mid-point of BC. If DL perpendicular to AB and DM perpendicular to AC such that DL = DM, then the triangle will be:

- Ans
- 1. isosceles triangle
  - 2. right angled triangle
  - 3. obtuse angle triangle
  - 4. equilateral triangle

Q.12 The marked price of a TV set is ₹18,500. If the dealer allows two successive discounts of 20% and 5%, for how much is the TV available?

- Ans
- 1. ₹14,000
  - 2. ₹15,000
  - 3. ₹15,060
  - 4. ₹14,060

Q.13 Ajay spends  $66\frac{2}{3}\%$  of his income on different household items. If his income increases by 25% and expenditure increase by 20%, then the effect on his savings will be:

- Ans
- 1. 28%
  - 2. 61%
  - 3. 49%
  - 4. 35%

Q.14 A function of two variable varies directly with x and inversely with y. Determine function when x = 5 and y = 3. Given that, for x = 0 and y = 1, f = 15 and for x = 1 and y = 15, f = 2.

- Ans
- 1. 10
  - 2. 2
  - 3. 5
  - 4. 15

Q.15 In how many years will ₹7,200 amount to ₹8,928 at a simple interest rate of 8% per annum?

- Ans
- 1. Four
  - 2. Three
  - 3. Two
  - 4. Five

Q.16 If  $\tan(A) = \frac{3}{5}$ , then  $\cos(A)$  is equal to:

- Ans
- 1.  $\frac{5}{\sqrt{34}}$
  - 2.  $\frac{9}{\sqrt{34}}$
  - 3.  $\frac{3}{\sqrt{34}}$
  - 4.  $\frac{25}{\sqrt{34}}$

Q.17 The below table shows the sales of motorbikes of four manufacturers from 2016 to 2020 (All the figures are in thousands). Study the table and answer the question that follows.

Manufacturer	2016	2017	2018	2019	2020
P	220	225	235	240	260
Q	280	290	310	310	330
R	350	375	385	390	400
S	400	420	430	440	450

Find the ratio of the total number of sales of the motorbikes of manufacturer Q to the total number of sales of the motorbikes of manufacturer S from 2016 to 2020.

- Ans
- 1. 72 : 105
  - 2. 76 : 107
  - 3. 74 : 103
  - 4. 78 : 107

Q.18 If  $\sin \theta + \cos \theta = \sqrt{3} \cos \theta$ , then the value of  $\cot \theta$  is:

Ans  1.  $\sqrt{3} - 1$

2.  $\frac{(\sqrt{3}+1)}{2}$

3.  $\frac{\sqrt{3}-1}{2}$

4.  $\sqrt{3} + 1$

Q.19 Simplify

$$-\frac{7}{6} + \frac{4}{9} \div \frac{5}{3} \times \frac{1}{16}$$

Ans  1.  $-\frac{23}{20}$

2.  $-\frac{23}{18}$

3.  $-\frac{20}{23}$

4.  $-\frac{18}{23}$

Q.20 A circular arc makes an angle of  $15^\circ$  at the centre. If the radius of the circular arc is 14 cm, what is the perimeter (correct up to two decimal places) of the sector so formed? ( $\pi = 3.14$ )?

Ans  1. 17.66 cm

2. 21.32 cm

3. 35.32 cm

4. 31.66 cm

Q.21 When  $f(m) = m^5 + 5m^4 - 3m + 7$  is divided by  $(m - 2)$ , then the remainder is \_\_\_\_\_.

Ans  1. 7

2. 5

3. 0

4. 113

Q.22 There are  $y$  yellow marbles and  $b$  blue marbles in a box. 18% of the yellow marbles were added to 24% of the blue marbles, and the total was 30. Three times the number of yellow marbles exceeds two times the number of blue marbles by 200. What is the ratio of  $y^2$  to  $b^2$ ?

Ans  1. 6 : 5

2. 4 : 1

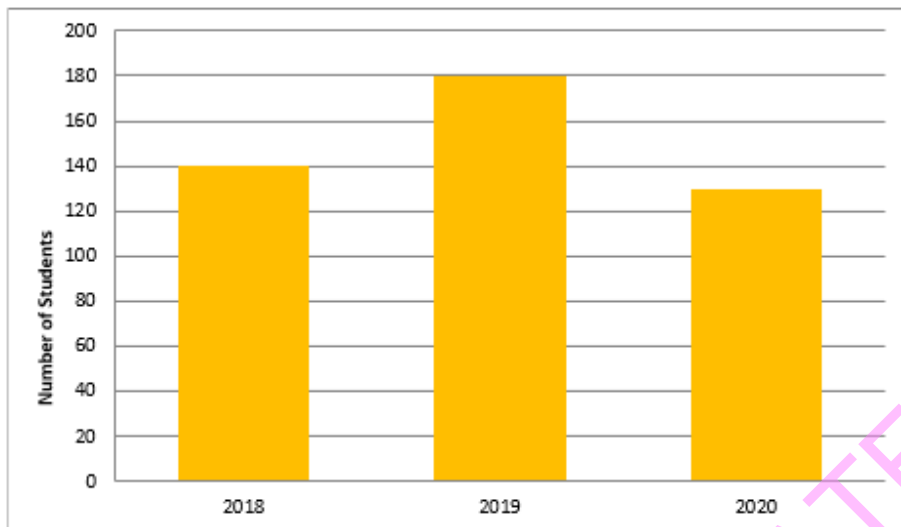
3. 2 : 1

4. 5 : 2

Q.23 If a triangle has a perimeter of 52 units, then all its sides have length \_\_\_\_\_ units.

- Ans
- 1. <26
  - 2. <20
  - 3. <24
  - 4. <18

Q.24 The following bar graph shows the number of students who passed the exam of GATE in the given years.



What was the percentage increase in the number of students in 2019 over 2018 (rounded off to two decimal places)?

- Ans
- 1. 35.79%
  - 2. 29.52%
  - 3. 28.57%
  - 4. 32.25%

Q.25 Two pipes can fill a tank in 12 hours and 18 hours, respectively, while a third pipe can empty it in 8 hours. How long (in hours) will it take to fill the empty tank if all three pipes are opened simultaneously?

- Ans
- 1. 48
  - 2. 24
  - 3. 36
  - 4. 72

Section : English Comprehension

Q.1 Select the most appropriate synonym of the underlined word in the given sentence.

I was completely mesmerised by the performance.

- Ans
- 1. Irritated
  - 2. Annoyed
  - 3. Bored
  - 4. Fascinated

**Q.2** Select the most appropriate meaning of the given idiom.  
Easy does it

- Ans**
- 1. Used to tell someone to do something rarely
  - 2. Used to tell someone to do something violently
  - 3. Used to tell someone to do something slowly and carefully
  - 4. Used to tell someone to do something horridly

**Q.3** Select the most appropriate ANTONYM of the given word.  
Candid

- Ans**
- 1. Tender
  - 2. Guileless
  - 3. Dishonest
  - 4. Irrelevant

**Q.4** Select the INCORRECTLY spelt word in the given sentence.

Educational technology has become a necessity if one desires excellent output.

- Ans**
- 1. necessity
  - 2. excellent
  - 3. Educational
  - 4. technology

**Q.5** Select the most appropriate meaning of the given idiom.

Cut corners

- Ans**
- 1. Complete a work
  - 2. Do something in an inexpensive and easy way
  - 3. Find a suitable place
  - 4. Clear a space

**Q.6** Identify the error in the following sentence.  
Brr, the city view from the Eiffel Tower is amazing!

- Ans**
- 1. amazing
  - 2. from
  - 3. view
  - 4. Brr

**Q.7** Select the option that can be used as a one-word substitute for the given group of words.  
A thing fit to eat.

- Ans**
- 1. Edible
  - 2. Unpalatable
  - 3. Uneatable
  - 4. Toxic

**Q.8** Select the option that can be used as a one-word substitute for the given group of words.  
A person who deceives others by pretending to be someone else

- Ans**
- 1. Unrecognisable
  - 2. Fraud
  - 3. Impostor
  - 4. Inaccessible

**Q.9** Select the most appropriate ANTONYM of the given word.

**Reluctant**

- Ans**
- 1. Desperate
  - 2. Obedient
  - 3. Enthusiastic
  - 4. Beautiful

**Q.10** Select the most appropriate option that can substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.  
If it had not rained, they would not postpone the programmes.

- Ans**
- 1. would be postponed
  - 2. no substitution
  - 3. would not have postponed
  - 4. would not postponed

**Q.11** Select the option that can be used as a one-word substitute for the underlined group of words.

The workers received a sum for the services they rendered.

- Ans**
- 1. Recruitment
  - 2. Remembrance
  - 3. Remuneration
  - 4. Rejuvenation

**Q.12** Select the sentence that does NOT have a spelling error.

- Ans**
- 1. The new caches of materials reveal a secret pleasence that was hidden away from the rest of the world
  - 2. Statistical patterns and historical data cannot predict the futristic problems that await a civilisation like ours.
  - 3. Many friends and memoirists have described the author in detail but there are no photos of the author available to the press.
  - 4. The author is famous for leading a life of subterfuge and contredictions which has led to challenges in understanding past works.

**Q.13** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
Having known that / the train was already on the platform, / they ran fastly / to catch it.

- Ans**
- 1. they ran fastly
  - 2. Having known that
  - 3. the train was already on the platform
  - 4. to catch it

**Q.14** Select the most appropriate ANTONYM of the underlined word in the following sentence.  
The movie's plot was predictable, with clichéd twists and turns.

- Ans**
- 1. undeviating
  - 2. evident
  - 3. unexpected
  - 4. infelicitous

**Q.15** Select the option that can be used as a one-word substitute for the underlined group of words.  
Foul smell will come if the food is not fresh.

- Ans**
- 1. brittle
  - 2. crisp
  - 3. stale
  - 4. odourless

Q.16 Select the word which means the same as the group of words given.

Capable of being done

- Ans
- 1. Suitable
  - 2. Feasible
  - 3. Practical
  - 4. Useful

Q.17 Select the option that expresses the given sentence in active voice.  
By whom were you injured?

- Ans
- 1. Who has injured you?
  - 2. Who injured you?
  - 3. Who had injured you?
  - 4. Who had been injuring you?

Q.18 Select the most appropriate ANTONYM of the underlined word in the given sentence.  
The patient was suffering from a chronic disease.

- Ans
- 1. Common
  - 2. Universal
  - 3. Usual
  - 4. Mild

Q.19 Select the most appropriate ANTONYM of the word in bold.  
Many people fought to abolish slavery during the Civil War.

- Ans
- 1. kill
  - 2. terminate
  - 3. establish
  - 4. damage

Q.20 Select the option that expresses the given sentence in active voice.

Were the plants being grafted by the gardener?

- Ans
- 1. Was the gardener grafting the plants?
  - 2. Was the gardener grafted the plants?
  - 3. Were the plants grafting the gardener?
  - 4. Were the gardener grafting the plants?

### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) \_\_\_\_\_ how awful he found the 45th president. The cause Cooper has (2) \_\_\_\_\_ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

A father of a fifth grader, a second grader and a kindergartner, Cooper is (3) \_\_\_\_\_ because the public schools in Fairfax, Virginia, where he lives, have not reopened. Fairfax, in the Washington, D.C., suburbs, is one of the school districts that has moved (4) \_\_\_\_\_ toward in-person learning, and it is still not close: only in the past few weeks have students started to return to classrooms, and only about half of those eligible have opted to go back, for an (5) \_\_\_\_\_ of two days a week.

### SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank no. 1

- Ans
- 1. frisking
  - 2. skipping
  - 3. detailing
  - 4. ignoring

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) \_\_\_\_\_ how awful he found the 45th president. The cause Cooper has (2) \_\_\_\_\_ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

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**SubQuestion No : 22****Q.22** Select the most appropriate option to fill in blank no. 2

- Ans
- 1. committed
  - 2. pacified
  - 3. sorted
  - 4. isolated

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) \_\_\_\_\_ how awful he found the 45th president. The cause Cooper has (2) \_\_\_\_\_ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

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**SubQuestion No : 23****Q.23** Select the most appropriate option to fill in blank no. 3

- Ans
- 1. indebted
  - 2. provoked
  - 3. excited
  - 4. frustrated

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) \_\_\_\_\_ how awful he found the 45th president. The cause Cooper has (2) \_\_\_\_\_ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

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**SubQuestion No : 24****Q.24** Select the most appropriate option to fill in blank no. 4.

- Ans
- 1. plainest
  - 2. slowest
  - 3. longest
  - 4. strangest



**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) \_\_\_\_\_ how awful he found the 45th president. The cause Cooper has (2) \_\_\_\_\_ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

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**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank no. 5.

- Ans**
- 1. average
  - 2. amount
  - 3. ideal
  - 4. understanding

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	18/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Select the set in which the numbers are related in the same way as are the numbers of the following set.

3 — 20 — 7

5 — 26 — 8

**NOTE:** Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans**
- 1. 18 — 70 — 6
  - 2. 5 — 20 — 8
  - 3. 8 — 28 — 6
  - 4. 17 — 20 — 13

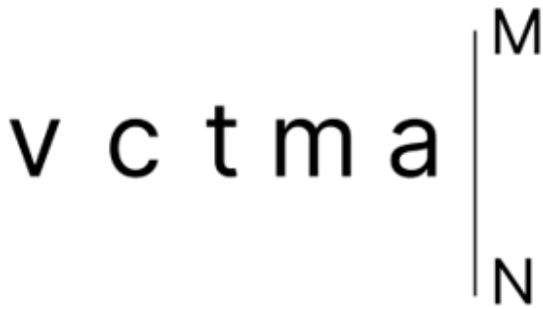
**Q.2** In a certain code language, 'she is girl' is coded as '7 3 9'; 'he is boy' is coded as '9 6 5' and 'girl is tall' is coded as '9 3 8'. How is 'she' coded in that language?

- Ans**
- 1. 7
  - 2. 3
  - 3. 8
  - 4. 9

**Q.3** Select the number from among the given options that can replace the question mark (?) in the following series.  
300, 152, 80, 48, 40, 52, ?

- Ans**
- 1. 60
  - 2. 80
  - 3. 90
  - 4. 100

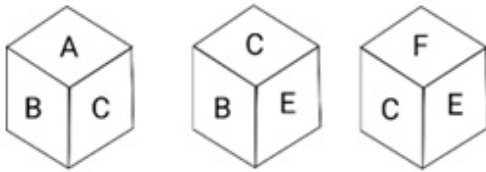
Q.4 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



Ans

- 1. a m t c v
- 2. a m j c v
- 3. e m j o v
- 4. s m j o v

Q.5 Six letters A, B, C, D, E and F are written on different faces of a dice. Three positions of this dice are shown in the figure. Find the letter on the face opposite to A.



Ans

- 1. C
- 2. D
- 3. E
- 4. F

Q.6 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete? WIX, VHW, UGV, TFU, ?

Ans

- 1. TEU
- 2. SEU
- 3. SET
- 4. SFT

Q.7 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Sugar : Sweet :: Habanero : ?

Ans

- 1. Salty
- 2. Bitter
- 3. Sour
- 4. Spicy

Q.8 Identify the figure given in the options which when put in place of ? will logically complete the series.

A	K	M	L	K	H	L	S	
	M		K		L		H	?

Ans

✓ 1.

H	D
	S

✗ 2.

H	S
	S

✗ 3.

S	D
	H

✗ 4.

H	H
	S

Q.9 Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
 (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
 (5, 80, 16)  
 (18, 108, 6)

Ans ✗ 1. (15, 185, 14)

✓ 2. (13, 91, 7)

✗ 3. (17, 8, 135)

✗ 4. (9, 81, 8)

Q.10 In a certain code language,

'A + B' means 'A is the mother of B';  
 'A - B' means 'A is the brother of B';  
 'A × B' means 'A is the wife of B' and  
 'A ÷ B' means 'A is the father of B'.

Based on the above, how is S related to P if 'P × Q ÷ R - S × A'?

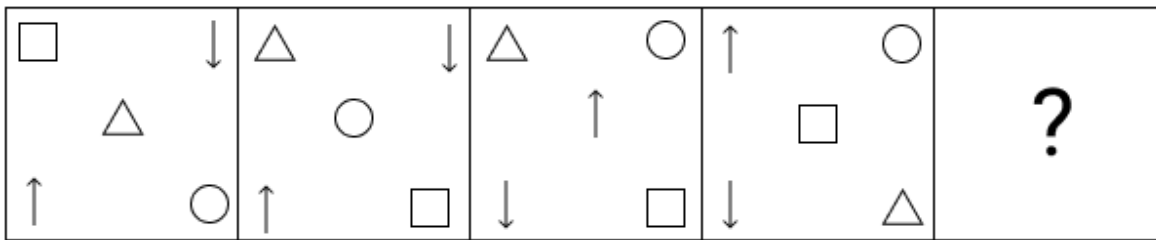
Ans ✗ 1. Mother

✓ 2. Daughter

✗ 3. Son

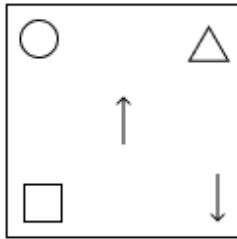
✗ 4. Father

Q.11 Identify the figure given in the options, which when put in place of the question mark (?) will logically complete the series.

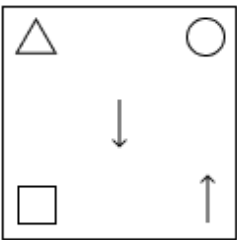


Ans

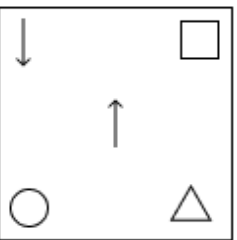
✗ 1.



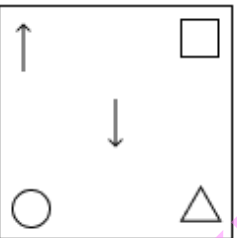
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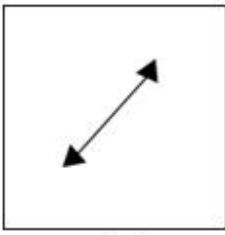


✓ 4.



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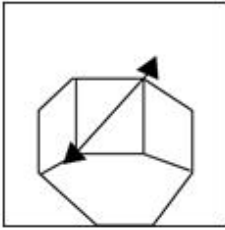
Q.12 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



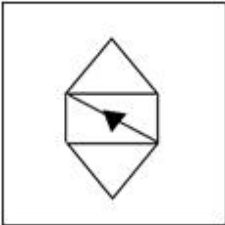
(X)

Ans

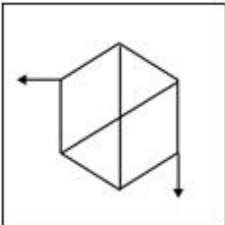
✓ 1.



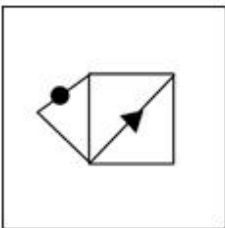
✗ 2.



✗ 3.



✗ 4.



Q.13 Select the option that represents the letters that when placed from left to right in the blanks below will complete the letter series.

\_ Y Z K X K X \_ Z K X \_ X Y \_ K X K X Y Z \_ X K X Y

Ans ✗ 1. XYZKK

✓ 2. XYKZK

✗ 3. KXYKZ

✗ 4. KYXZK

**Q.14** Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

Some pineapples are oranges.

All oranges are bananas.

All bananas are plums.

**Conclusions:**

I. Some pineapples are plums.

II. All oranges are plums.

III. No pineapple is a banana.

- Ans**
- 1. Only conclusions I and III follow
  - 2. Only conclusions I and II follow
  - 3. Only conclusion III follows
  - 4. Only conclusions II and III follow

**Q.15** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$1064 \times 2 - 653 \div 2 + 89 = ?$$

- Ans**
- 1. 1974
  - 2. 1749
  - 3. 1947
  - 4. 1497

**Q.16** Three of the following numbers are alike in a certain way and one is different. Pick the odd one out. (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1.  $16 - 9 = 139$
  - 2.  $25 - 7 = 175$
  - 3.  $12 - 7 = 79$
  - 4.  $17 - 5 = 80$

**Q.17** 51 is related to 256 by certain logic. Following the same logic, 53 is related to 266. To which of the following is 55 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. 276
  - 2. 290
  - 3. 249
  - 4. 213

**Q.18** In a certain code language, 'TABU' is written as 'SBAV' and 'TANK' is written as 'SBML'. How will 'TAIL' be written in that language?

- Ans**
- 1. SMBH
  - 2. SMHB
  - 3. SBHM
  - 4. SBMH

**Q.19** The position of how many letters will remain unchanged if all the letters in the word MENTOR are arranged in English alphabetical order?

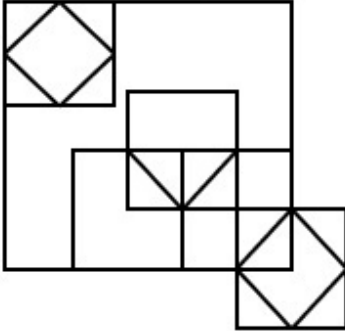
- Ans**
- 1. Two
  - 2. One
  - 3. None
  - 4. Three

Q.20 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '+' are interchanged?

$$37 \div 56 - 7 \times 2 + 6 = ?$$

- Ans
- 1. 41
  - 2. 55
  - 3. 37
  - 4. 47

Q.21 How many triangles are there in the figure shown below?



- Ans
- 1. 12
  - 2. 14
  - 3. 9
  - 4. 11

Q.22 In a certain code language, 'DRIVE' is coded as '62749' and 'RIDES' is coded as '76284'. What is the code for 'V' in that language?

- Ans
- 1. 8
  - 2. 7
  - 3. 9
  - 4. 6

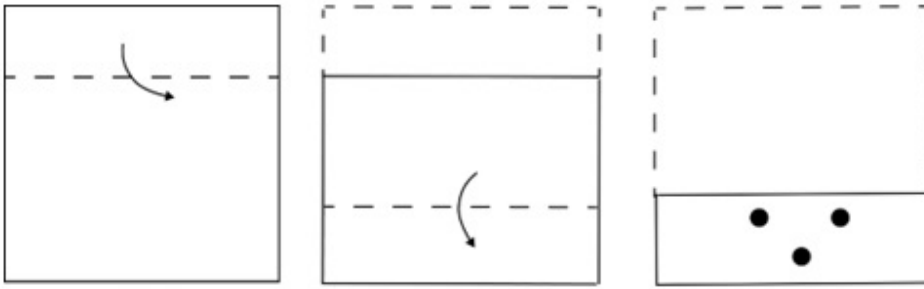
Q.23 The question contains pairs of words that are related to each other in a certain way. Three of the following four word pairs are alike as these have the same relationship and thus form a group. Which word pair is the one that DOES NOT belong to that group?

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- 1. Tired - exhausted
  - 2. Loud - noisy
  - 3. Close - open
  - 4. Honest - truthful

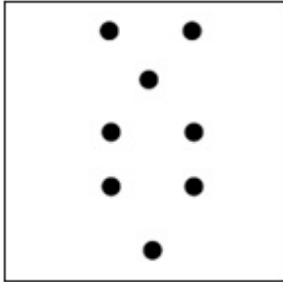


Q.24 A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last as shown. How would the paper look when unfolded?

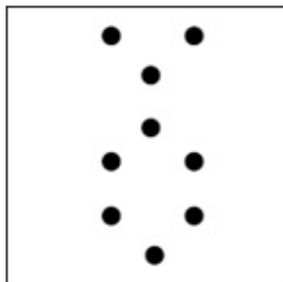


Ans

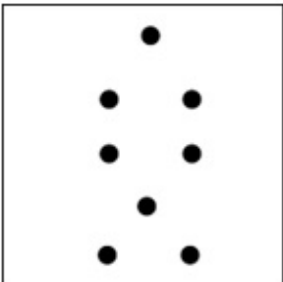
X 1.



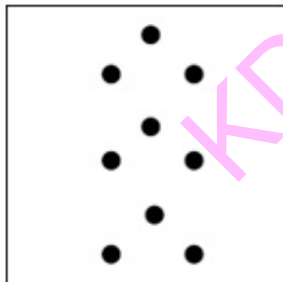
✓ 2.



X 3.



X 4.



Q.25 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
JAP: BSH :: NDZ: FVR :: LCX: ?

- Ans
- X 1. EVP
  - ✓ 2. DUP
  - X 3. DVP
  - X 4. EUP

**Q.1** Find out why white silver chloride turns grey in sunlight.

- Ans**
- 1. Due to rusting of silver in presence of oxygen
  - 2. Due to redox reaction
  - 3. Due to the decomposition of silver chloride into silver and chlorine by light
  - 4. Due to the displacement of silver chloride to silver oxide

**Q.2** Who founded the Brahmo Samaj in Calcutta in 1828?

- Ans**
- 1. Ram Mohan Roy
  - 2. Swami Vivekanand
  - 3. Gopal Krishna Gokhale
  - 4. Ramabai Ranade

**Q.3** Which of the following are west flowing rivers?

- Ans**
- 1. Godavari and Mahanadi
  - 2. Krishna and Kaveri
  - 3. Ganga and Yamuna
  - 4. Mahi and Sabarmati

**Q.4** Part IV A of the Indian Constitution was inserted in the Indian Constitution through \_\_\_\_\_ Constitutional Amendment Act.

- Ans**
- 1. 44<sup>th</sup>
  - 2. 46<sup>th</sup>
  - 3. 48<sup>th</sup>
  - 4. 42<sup>nd</sup>

**Q.5** Sido and Kanhu were leaders of which of the following tribal rebellions?

- Ans**
- 1. Moplah Rebellion
  - 2. Santhal Rebellion
  - 3. Kol Rebellion
  - 4. Munda Rebellion

**Q.6** The outermost part of the Earth is known as \_\_\_\_\_.

- Ans**
- 1. volcano
  - 2. the crust
  - 3. the core
  - 4. the mantle

**Q.7** The Upper House of a State Legislature is known as the \_\_\_\_\_.

- Ans**
- 1. Vidhan Parishad
  - 2. Rajya Sabha
  - 3. Lok Sabha
  - 4. Vidhan Sabha

**Q.8** According to the Ministry of Road Transport and Highways' annual report (2020-2021), which position does India have in terms of road networks in the world?

- Ans**
- 1. First
  - 2. Second
  - 3. Fourth
  - 4. Third

**Q.9** Why does the milkman add a very small amount of baking soda to fresh milk?

- Ans**
- 1. To reduce the pH of the fresh milk from 6 to slightly more acidic
  - 2. To increase the pH of the fresh milk from 6 to slightly alkaline
  - 3. To maintain the pH of the fresh milk at 6 for a longer time
  - 4. To reduce the pH of the fresh milk from 6 to slightly alkaline

**Q.10** In the context of periodicity, a unit called picometre is used to measure the \_\_\_\_\_.

- Ans**
- 1. atomic radius
  - 2. molar mass
  - 3. atomic density
  - 4. spin quantum number

**Q.11** Who among the following was the Former Secretary (HRD), Information and Broadcasting (I&B) and has been appointed as the advisor to the Prime Minister of India in October 2021?

- Ans**
- 1. Shri Apurva Chandra
  - 2. PK Sinha
  - 3. Amarjeet Sinha
  - 4. Amit Khare

**Q.12** Harrod Domar model was the main idea behind the \_\_\_\_\_ Five Year Plan.

- Ans**
- 1. Third
  - 2. First
  - 3. Second
  - 4. Fourth

**Q.13** When was the Rashtriya Swasthya Bima Yojana introduced to provide health insurance to people below the poverty line?

- Ans**
- 1. 2017
  - 2. 2009
  - 3. 2014
  - 4. 2008

**Q.14** Money supply is a \_\_\_\_\_ concept.

- Ans**
- 1. stock
  - 2. measurable
  - 3. non-measurable
  - 4. flow

**Q.15** The \_\_\_\_\_ of every state unfurls the flag in its capital on the Republic Day.

- Ans**
- 1. Judge of High Court
  - 2. Chief Minister
  - 3. Governor
  - 4. Speaker

**Q.16** Who among the following is one of the Deputy Chief Ministers of Uttar Pradesh as of July 2023?

- Ans**
- 1. Narottam Mishra
  - 2. Yogi Adityanath
  - 3. Manoj Sinha
  - 4. Keshav Prasad Maurya

**Q.17** Who among the following is/was a famous sitarist?

- Ans**
- 1. Ravi Shankar
  - 2. Ustad Bismillah Khan
  - 3. Pandit Bhimsen Joshi
  - 4. Zakir Hussain

**Q.18** Three Poets Pampa, Ponna and Ranna are called as the 'Three Jewels' of:

- Ans**
- 1. Kannada Literature
  - 2. Telugu Literature
  - 3. Tamil Literature
  - 4. Sanskrit Literature

**Q.19** Indian classical violinist Annavarapu Rama Swamy was awarded with the \_\_\_\_\_ in 2021.

- Ans**
- 1. Padma Shri
  - 2. Sangeet Natak Akademi
  - 3. Padma Vibhushan
  - 4. Padma Bhushan

**Q.20** Under which of the following Acts, the Board of Control was established in England to control and supervise the administration of British India?

- Ans**
- 1. Charter Act of 1813
  - 2. Regulating Act of 1773
  - 3. Charter Act of 1793
  - 4. Pitt's India Act of 1784

**Q.21** Which of the following states was the overall champion in both men and women categories in the first Janjatiya Khel Mahotsav?

- Ans**
- 1. Maharashtra
  - 2. Chhattisgarh
  - 3. Jharkhand
  - 4. Odisha

**Q.22** According to the Varna system that was prevalent in the Vedic period, which of the following was NOT a Varna?

- Ans**
- 1. Brahmanas
  - 2. Kshatriyas
  - 3. Samiti
  - 4. Vaishyas

**Q.23** Who was the first Indian woman wrestler to represent the country at the 2012 London Olympic Games?

- Ans**
- 1. Babita Phogat
  - 2. Sakshi Malik
  - 3. Vinesh Phogat
  - 4. Geeta Phogat

**Q.24** Which marine carotenoid is abundant in brown seaweed, macroalgae and diatoms?

- Ans**
- 1. Fucoxanthin
  - 2. Astaxanthin
  - 3. Neoxanthin
  - 4.  $\beta$ -cryptoxanthin

**Q.25** The Parliament passed the Essential Defence Services Bill, 2021 in August 2021. Which of the following is an objective behind passing it?

- Ans**
- 1. To encourage more FDI in defence services
  - 2. To prohibit strikes, lockouts and layoffs in units engaged in essential defence services
  - 3. To appoint more women in defence services
  - 4. To implement one rank one pension

Section : Quantitative Aptitude

**Q.1** A certain sum of money is given at a certain rate of simple interest for 6 years. Had it been given at 7% higher rate, it would have fetched ₹1,512 more. Find the sum (in ₹).

- Ans**
- 1. 3,200
  - 2. 3,600
  - 3. 3,100
  - 4. 4,200

**Q.2** A chord of length 32 cm is drawn at a distance of 12 cm from the centre of a circle. Find the radius of the circle.

- Ans**
- 1. 18 cm
  - 2. 22 cm
  - 3. 20 cm
  - 4. 28 cm

**Q.3** A shopkeeper offers the following discount schemes for buyers.

I. Two successive discounts of 15% and 20%

II. Successive discount of 25 % and 10%

III. A discount of 33%

The selling price will be minimum under the scheme:

- Ans**
- 1. I
  - 2. I or II
  - 3. III
  - 4. II

**Q.4** The perimeter of a rectangular garden is 48 m. If the length is 6 m more than the breadth, the area (in  $m^2$ ) of the garden is:

- Ans**
- 1. 135
  - 2. 96
  - 3. 84
  - 4. 112

**Q.5** If three cubes of volume  $512\text{ cm}^3$  each are joined end to end, find the surface area of the resulting cuboid.

- Ans**
- 1.  $896\text{ cm}^2$
  - 2.  $986\text{ cm}^2$
  - 3.  $895\text{ cm}^2$
  - 4.  $869\text{ cm}^2$

**Q.6** A number  $r$  when divided by 8 leaves remainder 3. What will be the remainder when  $(r^2+6r+7)$  is divided by 8?

- Ans**
- 1. 2
  - 2. 3
  - 3. 1
  - 4. 4

Q.7 If  $\sec(t) = \frac{x}{y}$ , then  $\cot(t)$  is equal to:

Ans  1.  $\frac{y}{\sqrt{x^2-y^2}}$

2.  $\frac{x}{\sqrt{x^2+y^2}}$

3.  $\frac{x}{\sqrt{x^2-y^2}}$

4.  $\frac{y}{\sqrt{x^2+y^2}}$

Q.8 Simplify the following:

$$\left[ \left( 5\frac{1}{2} - 3\frac{1}{3} \right) \text{ of } 1\frac{5}{13} + 1 - 2 \times 3\frac{5}{2} \div 2\frac{3}{4} \right]$$

Ans  1. 0

2.  $\frac{11}{2}$

3. -2

4.  $3\frac{1}{2}$

Q.9 Find the mean proportional of 36 and 100.

Ans  1. 65

2. 60

3. 55

4. 70

Q.10 In a constituency, 45% of the total number of voters are males and the rest are females. If 60% of the males are illiterate and 60% of the females are literate, then by what per cent is the number of illiterate females more than that of literate males? (Rounded off to 2 decimal places)

Ans  1. 19.11%

2. 27.23%

3. 30.24%

4. 22.22%

Q.11 The sum of five consecutive numbers is 80. Find the largest number.

Ans  1. 18

2. 15

3. 19

4. 14

Q.12 A shopkeeper sold  $\frac{5}{8}$  of his articles at a gain of 20% and the remaining at the cost price. What is his gain percentage in the whole transaction?

- Ans
- 1.  $16\frac{1}{2}\%$
  - 2.  $14\frac{1}{2}\%$
  - 3.  $13\frac{1}{2}\%$
  - 4.  $12\frac{1}{2}\%$

Q.13 Pipe X can fill a tank in 60 hours while pipe Y can fill the tank in 72 hours. Both pipes are opened together for 20 hours. How much of the tank is left empty ?

- Ans
- 1.  $\frac{1}{8}$
  - 2.  $\frac{243}{360}$
  - 3.  $\frac{7}{18}$
  - 4.  $\frac{3}{8}$

Q.14 If  $x = 7 - 4\sqrt{3}$ , then find the value of  $(x^2 + \frac{1}{x^2})$ .

- Ans
- 1. 188
  - 2. 194
  - 3. 186
  - 4. 196

Q.15 The following table shows the expenditures (in thousands of rupees) of a company in different categories from 2015 to 2019.

Year	Salary	Fuel and Transport	Bonus	Interest on loans	Taxes
2015	288	98	3	23.4	83
2016	343	112	2.52	32.5	108
2017	324	101	3.84	41.6	74
2018	336	133	3.68	36.4	88
2019	420	142	3.96	49.6	98

What is the average amount (in ₹) paid by the company on fuel and transport per year from 2015 to 2019?

- Ans
- 1. 1,17,200
  - 2. 1,16,500
  - 3. 1,18,200
  - 4. 1,15,200

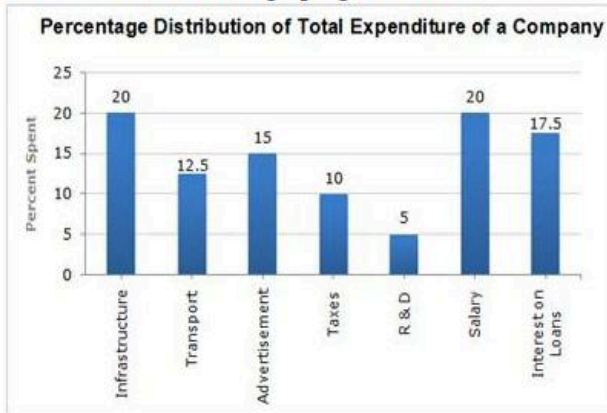
Q.16 If the system of the following equations has the value of the variables as three consecutive integers, then the value of a is

$$\begin{aligned}x - y + z &= 2a \\x + 4y - 2z &= 3(4 - a) \\2x - 3y + 4z &= 6 - 2a\end{aligned}$$

- Ans
- 1. 2
  - 2. 4
  - 3. 1
  - 4. 3

Q.17

In 2010, a company's total expenditure was categorised under different expense heads, and their percentage distribution is illustrated in the bar graph given below.



If the expenditure on an advertisement is ₹2.1 crore, then the difference between the expenditure on transport and taxes is?

- Ans
- 1. ₹32 lakh
  - 2. ₹42 lakh
  - 3. ₹30 lakh
  - 4. ₹35 lakh

Q.18 At what angle  $\theta$ , the value of  $\sin(\theta)$  and  $\cos(\theta)$  will have the same value?

- Ans
- 1.  $45^\circ$
  - 2.  $30^\circ$
  - 3.  $60^\circ$
  - 4.  $75^\circ$

Q.19 The given table shows the number of televisions that were sold by different showrooms in years 2015 to 2019.

Year/Showroom	A	B	C	D
2015	212	200	205	208
2016	210	215	225	220
2017	190	204	212	205
2018	198	212	222	224
2019	218	192	205	203

Find the difference between the sale of televisions from showrooms A, B and C in 2017 and the sale of televisions from showrooms B, C and D in 2019?

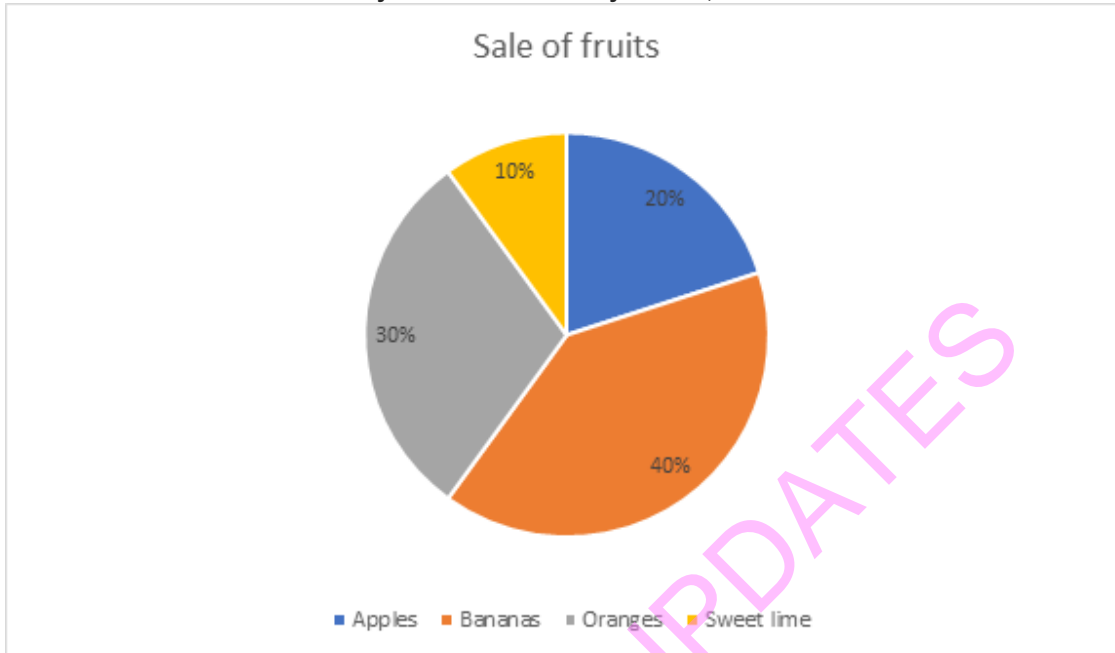
- Ans
- 1. 8
  - 2. 5
  - 3. 6
  - 4. 3



Q.20 In a circle with centre O, AOC is the diameter. B is a point on the circumference of the circle such that arc AB is  $\frac{1}{5}$  of the arc BC. What is the degree measure of  $\angle BOC$ ?

- Ans
- 1.  $120^\circ$
  - 2.  $150^\circ$
  - 3.  $80^\circ$
  - 4.  $30^\circ$

Q.21 Study the given pie chart and select the most appropriate option to fill in the blank. The given pie chart shows the sales of different fruits in a day for a shop. If the total number of fruits sold by a fruit seller in a day is 1200, then the number of bananas sold is \_\_\_\_.



- Ans
- 1. 360
  - 2. 520
  - 3. 240
  - 4. 480

Q.22 A circular arc whose radius is 24 cm makes an angle of  $60^\circ$  at the centre. The perimeter of the sector formed is: (Use  $\pi = 3.14$ )

- Ans
- 1. 73.22 cm
  - 2. 63.12 cm
  - 3. 74.32 cm
  - 4. 73.12 cm

Q.23 If  $3 \sin A + 4 \cos A = 5$ , then the value of  $\tan A$  is:

- Ans
- 1.  $\frac{3}{4}$
  - 2.  $\frac{3}{5}$
  - 3.  $\frac{5}{4}$
  - 4.  $\frac{4}{5}$

**Q.24** A motorboat travelling at some speed can cover 24 km upstream and 40 km downstream in 17 hours. At the same speed it can travel 32 km downstream and 12 km upstream in 10 hours. The speed of the stream is:

- Ans**
- 1. 5 km/h
  - 2. 4 km/h
  - 3. 2 km/h
  - 4. 3 km/h

**Q.25** If  $\triangle ABC$  and  $\triangle QPR$  are congruent triangles such that  $AB = 7$  cm,  $AC = 8$  cm,  $\angle B = 65^\circ$  and  $\angle C = 75^\circ$ , then which of the following is true?

- Ans**
- 1.  $\angle R = 75^\circ$  and  $PQ = 8$  cm
  - 2.  $PQ = 7$  cm and  $\angle R = 75^\circ$
  - 3.  $\angle Q = 40^\circ$  and  $RQ = 7$  cm
  - 4.  $AC = PR$  and  $\angle P = 65^\circ$

Section : English Comprehension

**Q.1** Select the INCORRECTLY spelt word.

- Ans**
- 1. Conscientious
  - 2. Mischievious
  - 3. Ostentatious
  - 4. Accommodate

**Q.2** Select the correctly spelt word to fill in the blank.

Helium is used with oxygen for asthma treatment because it \_\_\_\_\_ very easily.

- Ans**
- 1. difusez
  - 2. difuses
  - 3. diffuses
  - 4. diffuzes

**Q.3** Select the most appropriate synonym of the given word.  
Exceptional

- Ans**
- 1. Trivial
  - 2. Emotional
  - 3. Total
  - 4. Outstanding

**Q.4** Select the sentence in which the '-ing' form of verb expresses the continuity of an action/event.

- Ans**
- 1. Reading novels is my favourite pastime.
  - 2. I am fond of reading science fiction.
  - 3. Please do not disturb me. I am preparing for exams.
  - 4. The optician advised me to use reading glasses.

**Q.5** Select the option that can be used as a one-word substitute for the given group of words.

One who eats the flesh of his own species

- Ans**
- 1. Non-vegetarian
  - 2. Vegan
  - 3. Cannibal
  - 4. Mammal

Q.6 Select the most appropriate ANTONYM of the underlined word in the given sentence.

The appearance of most of the animals in jungle is deceptive in nature.

- Ans
- 1. honest
  - 2. illusive
  - 3. ugly
  - 4. beautiful

Q.7 Select the option that expresses the given sentence in passive voice.  
Dipesh will send Rakesh away to college for certain reasons.

- Ans
- 1. Rakesh will have to be sent away to college for certain reasons by Dipesh.
  - 2. Rakesh will be sent away to college for certain reasons by Dipesh.
  - 3. Rakesh would have been sent away to college for certain reasons by Dipesh.
  - 4. Rakesh would be sent away to college for certain reasons by Dipesh.

Q.8 Select the most appropriate ANTONYM of the underlined word.  
The long-standing feud between the two villages was settled due to the intervention of the two chiefs.

- Ans
- 1. Humility
  - 2. Harmony
  - 3. Humble
  - 4. Honesty

Q.9 Select the most appropriate synonym of the given word.  
Forsake

- Ans
- 1. Accelerate
  - 2. Reveal
  - 3. Abandon
  - 4. Clutch

Q.10 Select the most appropriate homophone to fill in the blank.  
He \_\_\_\_\_ his bike as fast as he could to reach home.

- Ans
- 1. rode
  - 2. road
  - 3. rowed
  - 4. rote

Q.11 Select the most appropriate option that can substitute the underlined segment in the given sentence.  
Sivamani is working as an electrician for the past 22 years.

- Ans
- 1. had been worked
  - 2. has been working
  - 3. have been working
  - 4. would work

Q.12 Select the most appropriate idiom to fill the blank in the given situation.

I thought Sadhna would always stick by me, but when I got into trouble, she turned out to be a/an \_\_\_\_\_.

- Ans
- 1. hard nut to crack
  - 2. open secret
  - 3. fair-weather friend
  - 4. white elephant

**Q.13** Select the most appropriate option to substitute the underlined word segment in the given sentence.  
Her thinning grey hair was hanging on her bony forehead.

- Ans**
- 1. falling about
  - 2. urging ahead
  - 3. straggling over
  - 4. sinking from

**Q.14** Select the option that can be used as a one-word substitute for the underlined segment.  
My father always tells amusing and true stories from his childhood at bedtime.

- Ans**
- 1. anecdotes
  - 2. sonnets
  - 3. fables
  - 4. allegories

**Q.15** Select the option that spots the error in the use of preposition in the given sentence.

Deepa and Seema are both good with running, but Deepa is also good at catching the ball and throwing it to the right corner in time.

- Ans**
- 1. to the right corner.
  - 2. at catching the ball
  - 3. good with running
  - 4. in time

**Q.16** Select the most appropriate option that can substitute the underlined word in the given sentence.

An intense wish to learn something keeps the nerves active.

- Ans**
- 1. powerful
  - 2. fixed
  - 3. lazy
  - 4. half-hearted

**Q.17** Select the most appropriate option that can substitute the idiom in the given brackets.

His PhD degree seems to be (Penelope's web).

- Ans**
- 1. An important task
  - 2. A difficult task
  - 3. A secret task
  - 4. An endless task

**Q.18** Select the option that can be used as a one-word substitute for the underlined group of words.  
Humour that describes the weaknesses of the other person is itself a crime among peer groups.

- Ans**
- 1. A joke
  - 2. Attire
  - 3. Satire
  - 4. A curse

**Q.19** Select the option that expresses the given sentence in active voice.  
Why are you repeatedly called by her?

- Ans**
- 1. Why she calls you repeatedly?
  - 2. Why had she called you repeatedly?
  - 3. Why was she calling you repeatedly?
  - 4. Why does she call you repeatedly?

**Q.20** Select the most appropriate ANTONYM of the given word.  
**Autonomy**

- Ans**
- 1. Dependence
  - 2. Permanence
  - 3. Independence
  - 4. Economical

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The limbs of the flying squirrel are interlinked with a membrane. When the creature (1)\_\_\_\_\_ into the air, the membrane opens and the squirrel seems to (2)\_\_\_\_\_ swiftly downwards. This movement gives the (3)\_\_\_\_\_ of flight. However, it is not flying really. It is a (4)\_\_\_\_\_ in the air from a higher level. It is also noteworthy that a squirrel cannot (5)\_\_\_\_\_ its direction while it is in flying mode.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. spring
  - 2. cross
  - 3. hurdle
  - 4. leaps

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The limbs of the flying squirrel are interlinked with a membrane. When the creature (1)\_\_\_\_\_ into the air, the membrane opens and the squirrel seems to (2)\_\_\_\_\_ swiftly downwards. This movement gives the (3)\_\_\_\_\_ of flight. However, it is not flying really. It is a (4)\_\_\_\_\_ in the air from a higher level. It is also noteworthy that a squirrel cannot (5)\_\_\_\_\_ its direction while it is in flying mode.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. skate
  - 2. skim
  - 3. wheel
  - 4. glide

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The limbs of the flying squirrel are interlinked with a membrane. When the creature (1)\_\_\_\_\_ into the air, the membrane opens and the squirrel seems to (2)\_\_\_\_\_ swiftly downwards. This movement gives the (3)\_\_\_\_\_ of flight. However, it is not flying really. It is a (4)\_\_\_\_\_ in the air from a higher level. It is also noteworthy that a squirrel cannot (5)\_\_\_\_\_ its direction while it is in flying mode.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. affect
  - 2. suspicion
  - 3. fancy
  - 4. impression

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The limbs of the flying squirrel are interlinked with a membrane. When the creature (1)\_\_\_\_\_ into the air, the membrane opens and the squirrel seems to (2)\_\_\_\_\_ swiftly downwards. This movement gives the (3)\_\_\_\_\_ of flight. However, it is not flying really. It is a (4)\_\_\_\_\_ in the air from a higher level. It is also noteworthy that a squirrel cannot (5)\_\_\_\_\_ its direction while it is in flying mode.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. progress
  - 2. motion
  - 3. sign
  - 4. wave

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The limbs of the flying squirrel are interlinked with a membrane. When the creature (1)\_\_\_\_\_ into the air, the membrane opens and the squirrel seems to (2)\_\_\_\_\_ swiftly downwards. This movement gives the (3)\_\_\_\_\_ of flight. However, it is not flying really. It is a (4)\_\_\_\_\_ in the air from a higher level. It is also noteworthy that a squirrel cannot (5)\_\_\_\_\_ its direction while it is in flying mode.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. adopt
  - 2. replace
  - 3. adept
  - 4. swap

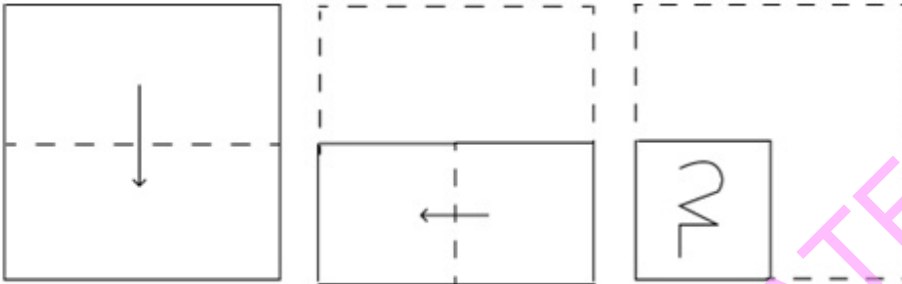
KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	18/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

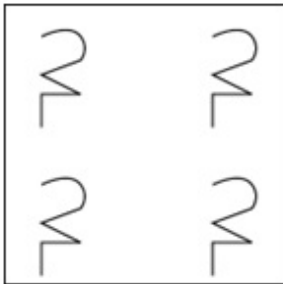
Section : General Intelligence and Reasoning

**Q.1** A paper is folded and cut as shown below. How will it appear when unfolded?

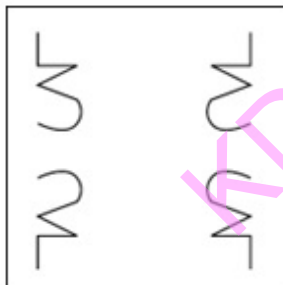


Ans

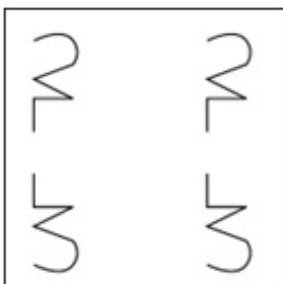
✗ 1.



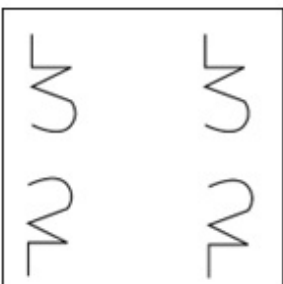
✓ 2.



✗ 3.



✗ 4.



JOB UPDATES

**Q.2** Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

$7 - 14 - 28 - 38$ ;  $4 - 8 - 16 - 26$

- Ans**
- 1.  $13 - 26 - 52 - 62$
  - 2.  $8 - 16 - 32 - 40$
  - 3.  $6 - 12 - 24 - 36$
  - 4.  $15 - 25 - 50 - 60$

**Q.3** What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$272 \times 16 + 97 - 23 \div 4 = ?$

- Ans**
- 1. 21
  - 2. 22
  - 3. 2
  - 4. 12

**Q.4** Select the set in which the numbers are related to each other in the same way as are the numbers of the given sets. (28, 224); (47, 376)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans**
- 1. (24, 168)
  - 2. (31, 248)
  - 3. (19, 212)
  - 4. (22, 178)

**Q.5** Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

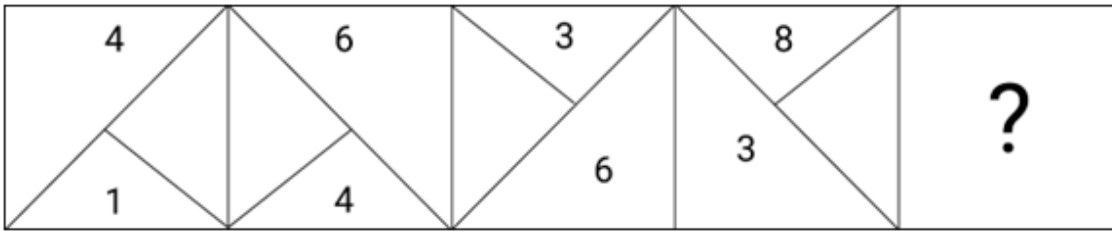
- Ans**
- 1. KJI
  - 2. VUT
  - 3. AAY
  - 4. HGF

**Q.6** Each of the letters in the word 'SLANTED' is arranged in the English alphabetical order. How many letters are there in the English alphabetical series between the letter which is fourth from the left end and the one which is second from the right end in the new letter-cluster thus formed?

- Ans**
- 1. Six
  - 2. Eight
  - 3. Seven
  - 4. Five

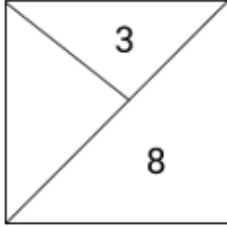


Q.7 Identify the figure given in the options which when put in place of ? will logically complete the series.

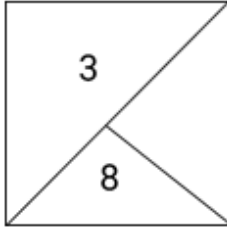


Ans

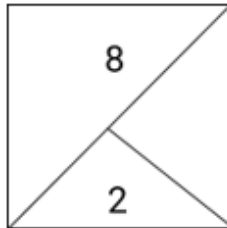
✗ 1.



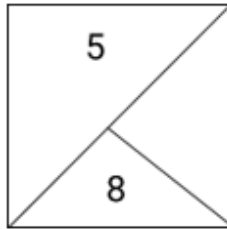
✗ 2.



✗ 3.



✓ 4.



Q.8 In a certain code language, 'play in the sunshine' is coded as 'sh ko zm fq' and 'the sunshine is bright' is coded as 'ko sh gp rs'. What is code for 'sunshine' in that language?

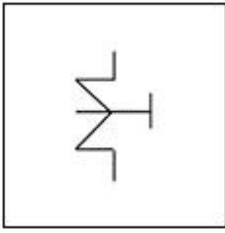
Ans ✗ 1. either 'gp' or 'sh'

✗ 2. ko

✗ 3. zm

✓ 4. either 'sh' or 'ko'

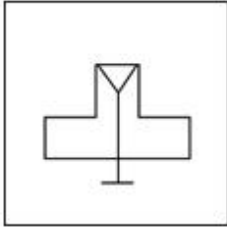
Q.9 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



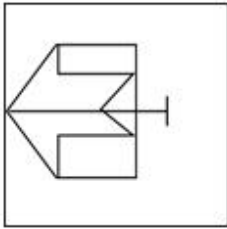
(X)

Ans

✗ 1.



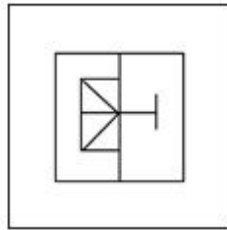
✗ 2.



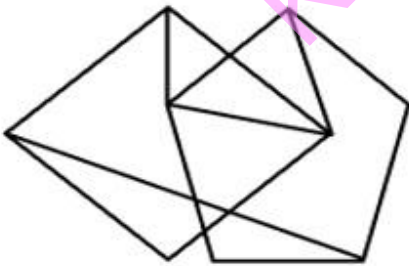
✗ 3.



✓ 4.



Q.10 How many triangles are there in the given figure?



Ans ✗ 1.7

✗ 2.11

✓ 3.8

✗ 4.9

Q.11 Identify the figure given in the options which when put in place of ? will logically complete the series.

A	A ⊙	A ⊙ S	A ⊙ S T	?
---	-----	-------	------------	---

Ans

✗ 1.

A	⊙	S
		T
		T

✗ 2.

A	⊙	S
		T
		S

✗ 3.

A	⊙	S
T		
R		

✓ 4.

A	⊙	S
		T
		R

Q.12 In a certain code language, 'TRIED' is coded as '54123' and 'TREAD' is coded as '12365'. What is the code for 'I' in the given code language?

- Ans
- ✓ 1. 4
  - ✗ 2. 5
  - ✗ 3. 6
  - ✗ 4. 1

Q.13 Which of the following terms will replace the question mark (?) in the given series?  
MJPT, PGMW, SDJZ, ?, YXDF

- Ans
- ✓ 1. VAGC
  - ✗ 2. VZFC
  - ✗ 3. VAGD
  - ✗ 4. WAGD

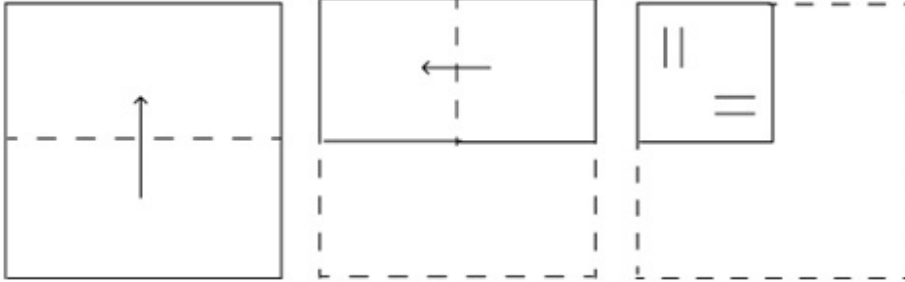
Q.14 Select the number that will come in the place of the question mark (?), if '+' and '-' are interchanged and 'x' and '÷' are interchanged  
 $121 \times 11 - 28 \div 3 + 17 = ?$

- Ans
- ✗ 1. 85
  - ✗ 2. 91
  - ✓ 3. 78
  - ✗ 4. 64

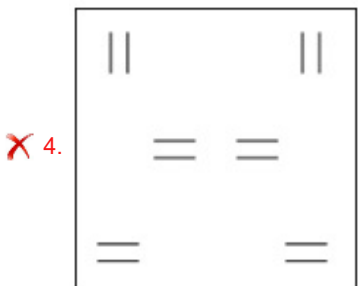
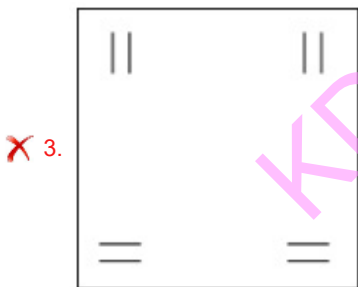
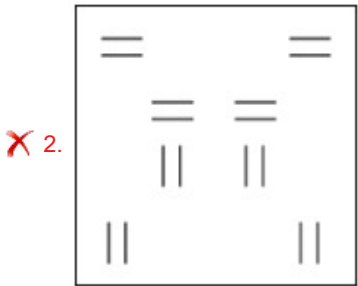
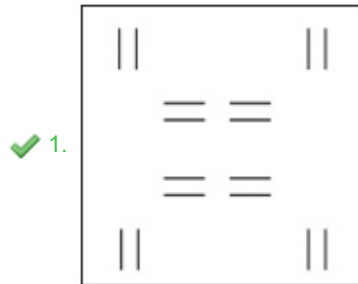
Q.15 'Persist' is related to 'Endure' in the same way as 'Stall' is related to '\_\_\_\_\_'.  
 (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- 1. Progress
  - 2. Complain
  - 3. Surge
  - 4. Delay

Q.16 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans



Q.17 Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

LMN \_ OLLM \_ QOLL \_ NQO \_ LMNQ \_ LLM

- Ans
- 1. QNMLLO
  - 2. QMNLO
  - 3. QLMNO
  - 4. NQLMO

Q.18 Which of the following numbers will replace the question mark (?) in the given series?  
20, 25, 25, 35, 30, 45, ?, 55, 40

- Ans
- 1. 50
  - 2. 60
  - 3. 30
  - 4. 35

Q.19 In a certain code language,

'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A × B' means 'A is the wife of B' and  
'A ÷ B' means 'A is the father of B'.

Based on the above, how is A related to D if 'A × B ÷ C + D'?

- Ans
- 1. Mother's mother
  - 2. Father's father
  - 3. Mother's father
  - 4. Father's mother

Q.20 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
(7, 333)  
(5, 115)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

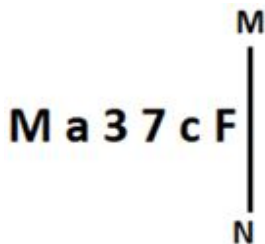
- Ans
- 1. (4, 54)
  - 2. (3, 24)
  - 3. (8, 492)
  - 4. (6, 226)

Q.21 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

CARBON : ACIYNO :: DAMAGE : ADNZEG :: MARGIN : ?

- Ans
- 1. AMGRNI
  - 2. MATINI
  - 3. AMITNI
  - 4. MARGNI

Q.22 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. F c 7 3 a M
  - 2. F c 7 3 a M
  - 3. F c 3 7 a M
  - 4. F c 7 3 a M

**Q.23** Three of the following numbers are alike in a certain way and one is different. Pick the odd one out.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) weerbb

- Ans**
- 1. 11 – 363
  - 2. 13 – 507
  - 3. 15 – 450
  - 4. 9 – 243

**Q.24** In a certain code language, 'HIT' is coded as '132' and 'SBYZ' is coded as '144'. How will 'YRF' be coded in that language?

- Ans**
- 1. 124
  - 2. 96
  - 3. 112
  - 4. 108

**Q.25** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

**Note:** The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans**
- 1. WUQ
  - 2. YWT
  - 3. ZXU
  - 4. XVS

Section : **General Awareness**

**Q.1** The Drought Prone Area Programme (DPAP) for providing employment to people in drought prone areas was started by the Government of India during the \_\_\_\_\_.

- Ans**
- 1. Fourth Five-Year Plan
  - 2. Sixth Five-Year Plan
  - 3. Third Five-Year Plan
  - 4. Seventh Five-Year Plan

**Q.2** 'Padayani', a local dance form primarily performed in \_\_\_\_\_ to please Goddess Bhadrakali.

- Ans**
- 1. Assam
  - 2. Kerala
  - 3. Odisha
  - 4. West Bengal

**Q.3** Which of the following statements are true based on the  $4\text{NH}_3(\text{g}) + 5\text{O}_2(\text{g}) \rightarrow 4\text{NO}(\text{g}) + 6\text{H}_2\text{O}(\text{g})$ ?

- (a) N gets oxidized.
- (b) O gets oxidized.
- (c) N gets reduced.
- (d) O gets reduced.

- Ans**
- 1. (a) and (d)
  - 2. (a) and (b)
  - 3. (c) and (d)
  - 4. (b) and (c)

**Q.4** Which Indian musician from Maharashtra received the Padma Vibhushan 2023?

- Ans**
- 1. Ramdas Palsule
  - 2. Bharat Kamat
  - 3. Zakir Hussain
  - 4. Milind Date

**Q.5** Which of the following is an example of major industrial region of India?

- Ans**
- 1. Chota Nagpur region
  - 2. Bhojpur-Munger
  - 3. Jaipur- Ajmer
  - 4. Bilaspur-Korba

**Q.6** Raja Bhalindra Singh trophy is associated with which of the following national sports events?

- Ans**
- 1. Khelo India Youth Games
  - 2. Khelo India Winter Games
  - 3. Khelo India University Games
  - 4. National Games

**Q.7** The renowned ghazal singer Girija Devi was born in \_\_\_\_\_.

- Ans**
- 1. Karnataka
  - 2. Bihar
  - 3. Uttar Pradesh
  - 4. Punjab

**Q.8** Which of the following statements is correct with respect to the political parties in India?

- Ans**
- 1. A political party symbol is assigned by the President of India.
  - 2. India has a multi-party system classified as national, state or regional level.
  - 3. All parties are registered with the Supreme Court of India.
  - 4. Status of party is accorded by the Parliament.

**Q.9** How was the growth in all food grains after the Green Revolution?

- Ans**
- 1. Unitary
  - 2. Proportionate
  - 3. Unpredictable
  - 4. Disproportionate

**Q.10** Which of the following is NOT a feature of the Constitution of India?

- Ans**
- 1. Universal Adult Franchise
  - 2. Independent Judiciary
  - 3. Dual Citizenship
  - 4. Blend of rigidity & flexibility

**Q.11** The Epidemic Diseases (Amendment) Ordinance, 2020 amended which of the following Acts?

- Ans**
- 1. The Epidemic Diseases Act, 1892
  - 2. The Epidemic Diseases Act, 1895
  - 3. The Epidemic Diseases Act, 1890
  - 4. The Epidemic Diseases Act, 1897

**Q.12** Under the 'Mero Rukh Mero Santati' initiative launched by the Sikkim Chief Minister Prem Singh Tamang in 2023, how many trees will be planted for every child born in Sikkim ?

- Ans**
- 1. 50
  - 2. 150
  - 3. 100
  - 4. 200

**Q.13** Filtration of waste products in humans happens in the kidneys. There is a large number of filtration units present inside the kidneys to help them in doing this job. These filtration units are called:

- Ans**
- 1. Bowman's capsules
  - 2. nephrons
  - 3. capillaries
  - 4. alveoli

**Q.14** Which number is called Avogadro's constant, named after the 19<sup>th</sup> century scientist Amedeo Avogadro?

- Ans**
- 1.  $6.022 \times 10^{23}$
  - 2.  $6.020 \times 10^{20}$
  - 3.  $6.032 \times 10^{19}$
  - 4.  $6.012 \times 10^{21}$

**Q.15** Which branch of ecology deals with the characteristics of ancient environment and their relationship with ancient plants and animals?

- Ans**
- 1. Demecology
  - 2. Ichthyology
  - 3. Paleoecology
  - 4. Mycology

**Q.16** Which of the following is a landlocked Salt Lake in South-West Asia between Israel and Jordan?

- Ans**
- 1. Don Juan Pond
  - 2. Aral Sea
  - 3. Caspian Sea
  - 4. Dead Sea

**Q.17** Which of the following rivers is an east flowing river?

- Ans**
- 1. Mahi river
  - 2. Narmada river
  - 3. Godavari river
  - 4. Tapi river

**Q.18** The Daroga system in 1792 was introduced by whom among the following Governor- Generals in India?

- Ans**
- 1. Lord Cornwallis
  - 2. Lord Minto
  - 3. Lord Mayo
  - 4. Lord William Bentinck

**Q.19** Chariot festival is dedicated to Lord Jagannath along with Subhadra and \_\_\_\_\_ .

- Ans**
- 1. Balabhadra
  - 2. Sudama
  - 3. Hanuman
  - 4. Arjuna

**Q.20** What correctly defines change of inventories of a firm during a year?

- Ans**
- 1. Production of the firm during the year – Sale of the firm during the year
  - 2. Production of the firm during the previous year – Sale of the firm during the year
  - 3. Sale of the firm during the year – Production of the firm during the year
  - 4. Production of the firm during the year – Sale of the firm during the previous year



Q.21 Sports Authority of India comes under which ministry?

- Ans
- 1. Ministry of Education
  - 2. Ministry of Social Justice
  - 3. Ministry of Health and Family Welfare
  - 4. Ministry of Youth Affairs and Sports

Q.22 Which of the following kingdoms was divided into subdivisions called Aharas or Rashtras that meant districts?

- Ans
- 1. Kushana
  - 2. Parthian
  - 3. Satavahana
  - 4. Shaka

Q.23 \_\_\_\_\_, authored by Tolkappiyar is the earliest Tamil literature.

- Ans
- 1. Tolkappiyam
  - 2. Ettutogai
  - 3. Kalittogai
  - 4. Narrinai

Q.24 Which Indian political leader was called as Lok Nayak?

- Ans
- 1. Ram Manohar Lohia
  - 2. Jai Prakash Narayan
  - 3. Bal Gangadhar Tilak
  - 4. Subhash Chandra Bose

Q.25 Three Indians were featured in Time Magazine's list of '100 most influential people of 2021'. Whose name was NOT included in the list?

- Ans
- 1. Narendra Modi
  - 2. Mamata Banerjee
  - 3. Amitabh Bachchan
  - 4. Adar Poonawalla

Section : Quantitative Aptitude

Q.1 On a circle of radius 7 units, PQ and QR are chords of length 7 units each. What is the length of the chord PR in units?

- Ans
- 1.  $\frac{28}{\sqrt{3}}$
  - 2.  $\frac{7}{\sqrt{3}}$
  - 3.  $\frac{14}{\sqrt{3}}$
  - 4.  $\frac{21}{\sqrt{3}}$

Q.2 In a circular race of 4800m, A and B start from the same point and at the same time with speeds of 36 km/h and 54 km/h. When will they meet again for the first time on the track if they are running in the opposite direction?

- Ans
- 1. 200 second
  - 2. 205 second
  - 3. 178 second
  - 4. 192 second

Q.3 Refer the below table and answer the question that follows.

Discipline	Boys	Girls
Engineering	120	80
Medical	80	120

What percentage of students who chose medical are boys?

- Ans
- 1. 30%
  - 2. 50%
  - 3. 40%
  - 4. 45%

Q.4 The average weight of 10 students is increased by half a kg when one of the students weighing 51 kg is replaced by a new student. Find the weight of the new student.

- Ans
- 1. 56 kg
  - 2. 75 kg
  - 3. 45 kg
  - 4. 66 kg

Q.5 Pipes A and B can fill a tank in 6 hours and 8 hours, respectively. Both pipes are opened together for 3 hours. After that pipe A is closed, and B continues to fill the tank. In how many hours will the tank be filled?

- Ans
- 1. 2
  - 2. 4
  - 3. 3
  - 4. 6

Q.6 Find the gain percentage, given that Siddhi sold her scooter for ₹ 71785 gaining  $\frac{1}{5}$ th of the selling price.

- Ans
- 1. 20%
  - 2. 25%
  - 3. 10%
  - 4. 15%

Q.7 Find the value of  $\frac{\tan 55^\circ}{\cot 35^\circ}$ .

- Ans
- 1.  $\cos 35^\circ$
  - 2. 1
  - 3.  $\sec 55^\circ$
  - 4. 0

Q.8 From the given data, find the ratio of the cost prices of a shirt and a trouser.

Item	Selling Price	Profit
Shirt	₹1,200	20%
Trouser	₹660	10%

- Ans
- 1. 2 : 1
  - 2. 1 : 3
  - 3. 3 : 4
  - 4. 5 : 3

Q.9 The mean proportional of  $4a^2$  and  $x$  is  $\frac{1}{5a}$ , where  $a$  is a positive number, then the value of  $x$  is \_\_\_\_\_.

- Ans
- 1.  $\frac{1}{100a^4}$
  - 2.  $\frac{1}{100a^2}$
  - 3.  $\frac{1}{25a^2}$
  - 4.  $\frac{1}{25a^4}$

Q.10 After offering two successive discounts a toy with a marked price of ₹150 is sold at ₹105. If the value of the first discount is 12.5%, what is the value of the second discount?

- Ans
- 1. 21%
  - 2. 18%
  - 3. 20%
  - 4. 22%

Q.11 The present ages (in years) of A and B are in the ratio of 3 : 4. Five years back, the ratio of their ages was 2 : 3. What is the present age (in years) of A?

- Ans
- 1. 15
  - 2. 28
  - 3. 20
  - 4. 21

Q.12 Find the area (in  $\text{cm}^2$ ) of an equilateral triangle whose sides are 18 cm.

- Ans
- 1.  $75\sqrt{3}$
  - 2.  $81\sqrt{3}$
  - 3.  $77\sqrt{3}$
  - 4.  $79\sqrt{3}$

Q.13 Find the remainder, if  $19^{200}$  is divided by 20.

- Ans
- 1. 2
  - 2. -1
  - 3. 1
  - 4. 3

Q.14 A total of ₹2,00,000 is divided into two parts for investing in different banks on simple interest. One yields 4% p.a. while the other yields 6% p.a. If the total interest at the end of one year is equivalent to 4.7% p.a. on the whole amount, the amount (in ₹) invested in each bank is \_\_\_\_\_, respectively.

- Ans
- 1. 1,30,000 and 70,000
  - 2. 1,45,000 and 55,000
  - 3. 1,20,000 and 80,000
  - 4. 1,60,000 and 40,000

Q.15 Simplify,  $\frac{\sin A}{1+\cos A} + \cot A$ , where A is an acute angle.

- Ans
- 1.  $\sin A$
  - 2.  $\cos A$
  - 3.  $\sin A + \cos A$
  - 4.  $\operatorname{cosec} A$

Q.16 If  $\tan \theta = \frac{8}{15}$ , and  $\theta$  is an acute angle, then the value of  $\frac{\sqrt{1-\sin \theta}}{\sqrt{1+\sin \theta}}$  is:

- Ans
- 1.  $\frac{2}{5}$
  - 2.  $\frac{3}{5}$
  - 3.  $\frac{1}{5}$
  - 4.  $\frac{4}{5}$

Q.17 The radius of the base of a right circular cone is 9 cm and its slant height is 49 cm. Find the curved surface area of the cone.

- Ans
- 1.  $1386 \text{ cm}^2$
  - 2.  $1265 \text{ cm}^2$
  - 3.  $1262 \text{ cm}^2$
  - 4.  $1490 \text{ cm}^2$

Q.18 If arcs PAQ and RBS of a circle are congruent, then find the ratio of PQ and RS.

- Ans
- 1. 2 : 3
  - 2. 1 : 3
  - 3. 1 : 1
  - 4. 1 : 2

Q.19 In an election between two candidates, the one who gets 88% of the votes is elected by a majority of 684 votes. What is the total number of votes polled? (all polled votes are valid)

- Ans
- 1. 900
  - 2. 800
  - 3. 850
  - 4. 750

Q.20 Which of the following fractions is the largest?

$$\frac{2}{3}, \frac{6}{53}, \frac{79}{90}, \frac{33}{44}$$

Ans

1.  $\frac{2}{3}$

2.  $\frac{33}{44}$

3.  $\frac{6}{53}$

4.  $\frac{79}{90}$

Q.21 In a  $\triangle PQR$ ,  $PQ = PR$  and  $PT$  is perpendicular to  $QR$ . If  $PQ = 17$  cm,  $PT = 15$  cm, then what is the measure (in cm) of  $QR$ ?

Ans

1. 8

2. 24

3. 16

4. 32

Q.22

If  $x + \frac{1}{x} = 2$ , then find the value of  $\left(x^{2723} + \frac{1}{x^{3356}}\right)$ .

Ans

1. 1

2. 2

3. 0

4. -1

Q.23

Simplify.

$$\frac{(7.3)^3 - (4.7)^3}{(7.3)^2 + 7.3 \times 4.7 + (4.7)^2}$$

Ans

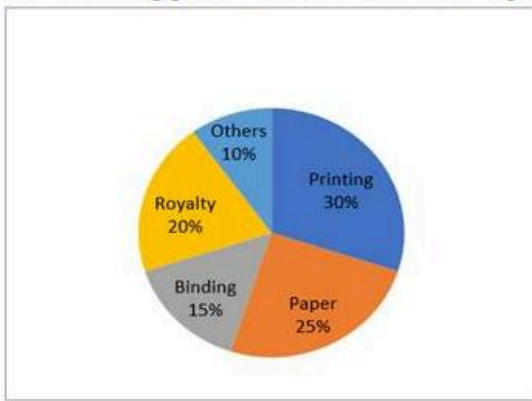
1. 12

2. 3.2

3. 2.6

4. 11

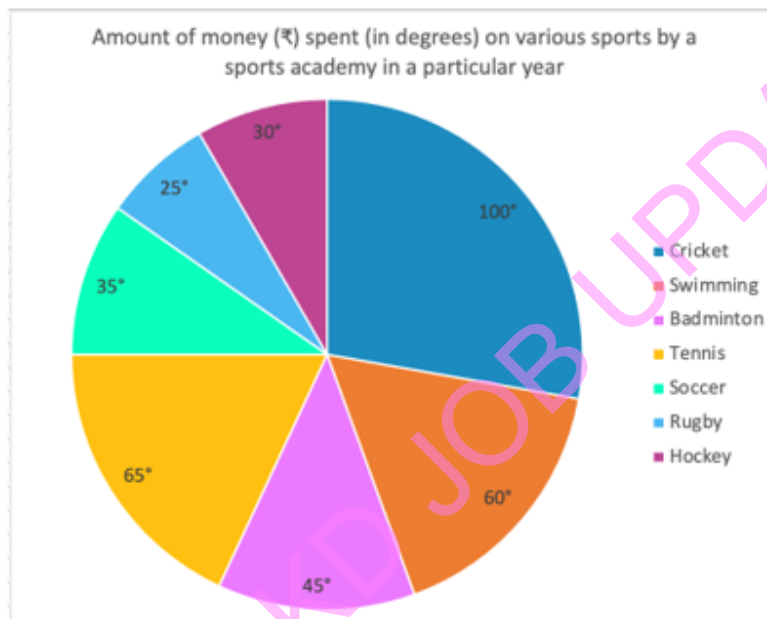
Q.24 The following pie chart below shows the expenditure in book publishing by a publisher under various heads.



Given that marked price of a book is ₹270, what is the cost of paper to publish a single copy of the book if the marked price of a book is 20% more than its cost price?

- Ans
- 1. ₹68.75
  - 2. ₹56.25
  - 3. ₹62.15
  - 4. ₹58.45

Q.25 The given pie chart shows the amount of money (₹) spent (in degrees) on various sports by a sports academy in a particular year. Study the pie chart and answer the question that follows.



If ₹42,000 were spent on Soccer, then the money spent on Badminton, Tennis and Rugby taken together is what percentage (rounded off to 2 decimal places) more/less than the money spent on Cricket, Swimming and Hockey taken together?

- Ans
- 1. Less, 34.87%
  - 2. More, 28.95%
  - 3. More, 34.87%
  - 4. Less, 28.95%

Section : English Comprehension

Q.1 Select the most appropriate option to substitute the underlined segment in the given sentence.  
Rohan exercised and ate a lot, lest he should not be weak .

- Ans
- 1. lest he should not weak
  - 2. lest he would be weak
  - 3. lest he would not be weak.
  - 4. lest he should be weak

**Q.2** Select the most appropriate ANTONYM for the underlined word in the given sentence.  
Despite his annoyance, Rahul knew that rushing the delicate process would only lead to mistakes.

- Ans**
- 1. Susceptibility
  - 2. Absurdity
  - 3. Gnawer
  - 4. Serenity

**Q.3** Select the most appropriate option that means the same as the underlined group of words to fill in the blank.

Most of the rivers dry up during the summer season, but the Ganga is full of water round the year because it is \_\_\_\_\_.

- Ans**
- 1. biennial
  - 2. biannual
  - 3. perennial
  - 4. annual

**Q.4** Select the most appropriate meaning of the given group of words.

On cloud nine

- Ans**
- 1. Being angry with someone
  - 2. Being very delighted
  - 3. Flying in the sky
  - 4. Being very high

**Q.5** Select the correct spelling to fill in the blank.

When numerous ideas are presented in a historical context, more than mere \_\_\_\_\_ can be seen.

- Ans**
- 1. parallelism
  - 2. paralialism
  - 3. paralelism
  - 4. parollelism

**Q.6** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. So I am not very sure
- B. I have a driving license
- C. Of myself reaching home safely
- D. But no real driving experience

- Ans**
- 1. BCAD
  - 2. BDCA
  - 3. BDAC
  - 4. CABD

**Q.7** Select the correctly spelt word to fill in the blank.

Calder Hall is a nuclear power station in England which is known as the first nuclear power station to generate electricity for \_\_\_\_\_ purposes.

- Ans**
- 1. comercial
  - 2. comercail
  - 3. commerceil
  - 4. commercial

**Q.8** Select the option that expresses the given sentence in passive voice.  
Can you compose an inspiring poem?

- Ans**
- 1. Can an inspiring poem be composed?
  - 2. An inspiring poem can be composed by you.
  - 3. Can an inspiring poem be composed by you?
  - 4. Can an inspiring poem by you composed?

Q.9 Select the most appropriate meaning of the given word.  
Pugnacious

- Ans
- 1. Impatient
  - 2. Good-tempered
  - 3. Arrogant
  - 4. Waspish

Q.10 Select the most appropriate synonym of the given word.  
Condone

- Ans
- 1. Solicitude
  - 2. Penalty
  - 3. Pardon
  - 4. Solace

Q.11 Select the most appropriate synonym of the given word.  
Tendency

- Ans
- 1. Distaste
  - 2. Decoy
  - 3. Proneness
  - 4. Aversion

Q.12 Select the option that expresses the given sentence in passive voice.  
The tutor was not teaching the student.

- Ans
- 1. The student was teaching the tutor.
  - 2. The student was not taught by the tutor.
  - 3. The student was not being taught by the tutor.
  - 4. The student was not being teaching by the tutor.

Q.13 Select the most appropriate meaning of the given group of words.

A bitter pill

- Ans
- 1. Facing a distressing situation
  - 2. Talking nonsense
  - 3. Arguing unnecessarily
  - 4. Getting furious easily

Q.14 Select the most appropriate option that can substitute the underlined word in the given sentence.

Bankrupts are those who are incapable to pay their debts.

- Ans
- 1. capable
  - 2. powerful
  - 3. incompetent
  - 4. meagre

Q.15 Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct sequence to form a meaningful sentence.

(P) dreams provide an escape  
(Q) where reality is suspended  
(R) into a world  
(O) of endless possibilities

- Ans
- 1. OPQR
  - 2. PROQ
  - 3. QORP
  - 4. RPOQ



**Q.16** The following sentence has been split into segments. Identify the segment that contains an error. If you don't find any error, mark 'No error' as your answer.  
People admired him, for / he lived by the same principals / that he preached.

- Ans**
- 1. that he preached
  - 2. No error
  - 3. he lived by the same principals
  - 4. People admired him, for

**Q.17** Select the most appropriate ANTONYM of the given word.

**Dogmatic**

- Ans**
- 1. Concerned
  - 2. Liberal
  - 3. Conservative
  - 4. Diplomatic

**Q.18** Select the most appropriate synonym of the given word.  
**Kilter**

- Ans**
- 1. Order
  - 2. Disrepair
  - 3. Anarchy
  - 4. Shambles

**Q.19** The given sentence is divided into four segments. Select the option that has the segment with a grammatical error.  
We were on the way/ to the party;/ suddenly, there/ will a heavy downpour.

- Ans**
- 1. to the party;
  - 2. We were on the way
  - 3. will a heavy downpour.
  - 4. suddenly, there

**Q.20** Select the option that can substitute/replace the bracketed word correctly and complete the sentence.  
He (seek) for the wallet in his pocket.

- Ans**
- 1. Sought
  - 2. Had seeking
  - 3. Are seeking
  - 4. Seeking

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

This Diwali is more significant because we are going to celebrate it after three years, without the evil shadow of Covid-19 that (1)\_\_\_\_\_ looming over all festivities. The lockdowns and endless bad news of death and (2)\_\_\_\_\_ had turned our country into a zone of gloom. But, this season of Diwali (3)\_\_\_\_\_ all the sorrows of people by lighting the candle of hope in their lives. We can see the lights, the candles, the lanterns, and the busy people coming out of their houses and purchasing toys for their children. Let's (4)\_\_\_\_\_ those people who have made such a huge contribution to (5)\_\_\_\_\_ good thoughts and saving people's lives.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. is
  - 2. were
  - 3. are
  - 4. was

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

This Diwali is more significant because we are going to celebrate it after three years, without the evil shadow of Covid-19 that (1)\_\_\_\_\_ looming over all festivities. The lockdowns and endless bad news of death and (2)\_\_\_\_\_ had turned our country into a zone of gloom. But, this season of Diwali (3)\_\_\_\_\_ all the sorrows of people by lighting the candle of hope in their lives. We can see the lights, the candles, the lanterns, and the busy people coming out of their houses and purchasing toys for their children. Let's (4)\_\_\_\_\_ those people who have made such a huge contribution to (5)\_\_\_\_\_ good thoughts and saving people's lives.

**SubQuestion No : 22****Q.22 Select the most appropriate option to fill in blank number 2.**

- Ans
- 1. economic boom
  - 2. demonetisation
  - 3. disease
  - 4. new birth

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

This Diwali is more significant because we are going to celebrate it after three years, without the evil shadow of Covid-19 that (1)\_\_\_\_\_ looming over all festivities. The lockdowns and endless bad news of death and (2)\_\_\_\_\_ had turned our country into a zone of gloom. But, this season of Diwali (3)\_\_\_\_\_ all the sorrows of people by lighting the candle of hope in their lives. We can see the lights, the candles, the lanterns, and the busy people coming out of their houses and purchasing toys for their children. Let's (4)\_\_\_\_\_ those people who have made such a huge contribution to (5)\_\_\_\_\_ good thoughts and saving people's lives.

**SubQuestion No : 23****Q.23 Select the most appropriate option to fill in blank number 3.**

- Ans
- 1. had recognised
  - 2. has hovered
  - 3. has shed
  - 4. has adopted

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

This Diwali is more significant because we are going to celebrate it after three years, without the evil shadow of Covid-19 that (1)\_\_\_\_\_ looming over all festivities. The lockdowns and endless bad news of death and (2)\_\_\_\_\_ had turned our country into a zone of gloom. But, this season of Diwali (3)\_\_\_\_\_ all the sorrows of people by lighting the candle of hope in their lives. We can see the lights, the candles, the lanterns, and the busy people coming out of their houses and purchasing toys for their children. Let's (4)\_\_\_\_\_ those people who have made such a huge contribution to (5)\_\_\_\_\_ good thoughts and saving people's lives.

**SubQuestion No : 24****Q.24 Select the most appropriate option to fill in blank number 4.**

- Ans
- 1. salute
  - 2. berate
  - 3. terminate
  - 4. onerous

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

This Diwali is more significant because we are going to celebrate it after three years, without the evil shadow of Covid-19 that (1)\_\_\_\_\_ looming over all festivities. The lockdowns and endless bad news of death and (2)\_\_\_\_\_ had turned our country into a zone of gloom. But, this season of Diwali (3)\_\_\_\_\_ all the sorrows of people by lighting the candle of hope in their lives. We can see the lights, the candles, the lanterns, and the busy people coming out of their houses and purchasing toys for their children. Let's (4)\_\_\_\_\_ those people who have made such a huge contribution to (5)\_\_\_\_\_ good thoughts and saving people's lives.

**SubQuestion No : 25****Q.25 Select the most appropriate option to fill in blank number 5.**

- Ans
- 1. stagnating
  - 2. impeding
  - 3. implicating
  - 4. spreading

## Combined Graduate Level Examination 2024 Tier I

Exam Date	18/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Select the number from among the given options that can replace the question mark (?) in the following series.  
3, 6, 9, 18, 21, ?

- Ans
- 1. 42
  - 2. 24
  - 3. 40
  - 4. 63

**Q.2** Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements:

All beaches are sand.

Some deserts are sand.

All mountains are rocky.

Conclusions:

(I) At least some beaches are desert.

(II) At least some sands are rocky.

- Ans
- 1. Only conclusion (II) follows.
  - 2. Both conclusions (I) and (II) follows.
  - 3. Only conclusion (I) follows.
  - 4. Neither conclusion (I) nor (II) follows.

**Q.3** Select the combination of letters that when sequentially placed in the blanks of the given series will logically complete the series.

QUA\_TO\_ANT\_UAN\_KU\_NT

- Ans
- 1. NUMTA
  - 2. NUTMA
  - 3. NUTAM
  - 4. NULTA

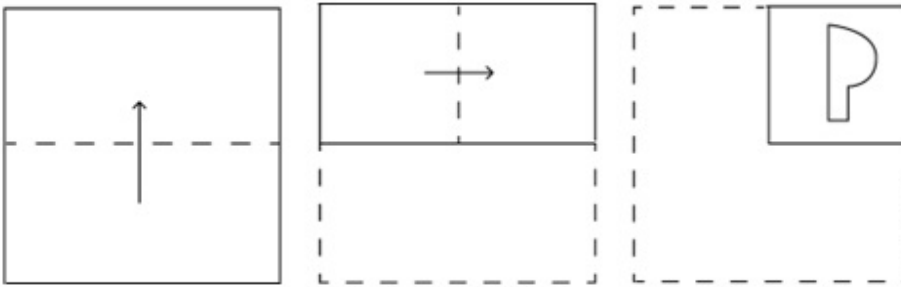
**Q.4** Select the option that can replace the question mark (?) in the following series.  
NW17, PY19, RA21, TC23, ?

- Ans
- 1. VE25
  - 2. WD24
  - 3. XD24
  - 4. WF23

Q.5 In a certain code language, 'MORE' is coded as '14 - 12 - 9 - 22' and 'KNOW' is coded as '16 - 13 - 12 - 4'. How will 'SAID' be coded in the given language?

- Ans
- 1. 7 - 26 - 18 - 22
  - 2. 8 - 26 - 18 - 23
  - 3. 8 - 26 - 17 - 23
  - 4. 7 - 25 - 18 - 23

Q.6 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans

- 1.
- 2.
- 3.
- 4.

Q.7 Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Control : Domination

- Ans
- 1. Creation : Destruction
  - 2. Liberation : Slavery
  - 3. Descend : Fall
  - 4. Manipulation : Deceive

**Q.8** In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.

**Statements:**

No medicine is a capsule.

Some capsules are tablets.

Some tablets are laptops.

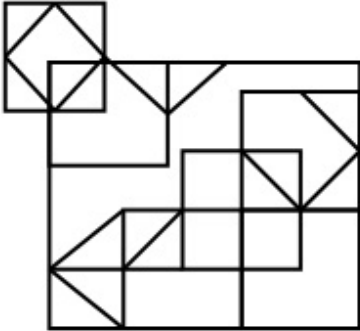
**Conclusions:**

I. Some capsules are laptops.

II. All tablets can never be medicines.

- Ans**
- 1. Neither Conclusion I nor II follow.
  - 2. Both Conclusions I and II follow.
  - 3. Only Conclusion II follows.
  - 4. Only Conclusion I follows.

**Q.9** How many triangles are there in the given figure?



- Ans**
- 1. 17
  - 2. 12
  - 3. 15
  - 4. 18

KD JOB UPDATES

Q.10 Identify the figure given in the options which when put in place of ? will logically complete the series.

5 9 6	9 6 3	6 3 2	3 2 0	?
-------------	-------------	-------------	-------------	---

Ans

✗ 1.

0 2 3
-------------

✗ 2.

2 0 2
-------------

✓ 3.

2 0 1
-------------

✗ 4.

0 2 1
-------------

Q.11 In a certain code language,  
 'A + B' means 'A is the mother of B';  
 'A - B' means 'A is the father of B';  
 'A \$ B' means 'A is the daughter of B' and  
 'A % B' means 'A is the sister of B'.  
 Based on the above, how is P related to S if  $P + Q - R \$ S \% T$ ?

- Ans
- ✗ 1. Sister's daughter
  - ✗ 2. Sister's husband
  - ✓ 3. Husband's mother
  - ✗ 4. Mother

Q.12 Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
 (21, 504, 8)  
 (15, 270, 6)

- Ans
- ✗ 1. (16, 320, 5)
  - ✗ 2. (23, 230, 5)
  - ✗ 3. (17, 272, 8)
  - ✓ 4. (16, 336, 7)

Q.13 Select the number that will come in the place of the question mark(?), if '+' and '-' are interchanged and 'x' and '÷' are interchanged

$$93 - 7 \div 65 \times 13 + 34 = ?$$

- Ans
- 1. 87
  - 2. 94
  - 3. 99
  - 4. 104

Q.14 In a certain code language, 'BIRD' is written as 'DKTF' and 'KITE' is written as 'MKVG'. How will 'EAGLE' be written in that language?

- Ans
- 1. GCING
  - 2. GGNCI
  - 3. INGGC
  - 4. IGNCG

Q.15 Which two numbers (not digits) should be interchanged to make the given equation correct?

$$19 + 125 \div 25 - 100 \div 5 + 4 \times 3 = 52$$

- Ans
- 1. 19 and 4
  - 2. 125 and 100
  - 3. 25 and 5
  - 4. 4 and 5

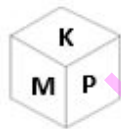
Q.16 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

$$10 : 110 :: 7 : 56 :: 9 : ?$$

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

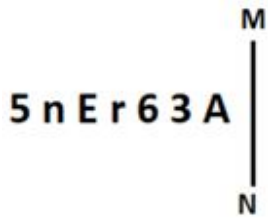
- Ans
- 1. 90
  - 2. 91
  - 3. 85
  - 4. 81

Q.17 Two different positions of the same dice with faces K, B, V, M, P and T are shown below. Select the letter that will be on the face opposite to the one having B.



- Ans
- 1. V
  - 2. P
  - 3. K
  - 4. M

Q.18 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

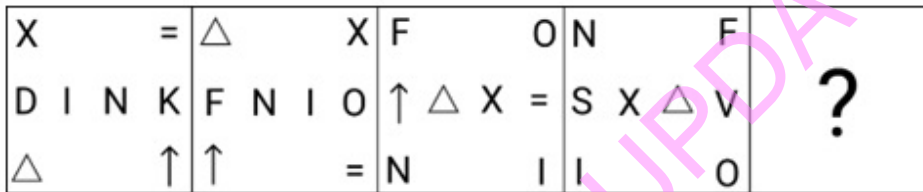


- Ans
- 1. A 6 3 r E n 2
  - 2. A 3 r E n 2
  - 3. A 3 r E n 5
  - 4. A 3 r E n 2

Q.19 Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group?  
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

- Ans
- 1. MPR
  - 2. CFH
  - 3. IKN
  - 4. EHJ

Q.20 Select the figure from among the given option that can replace the question mark (?) in the following series.



- Ans
- 1.
 

S	N
X △ V F	
O	I
  - 2.
 

I	O
V N F S	
X	△
  - 3.
 

I	N
V S X △	
O	F
  - 4.
 

S	V
I N F O	
X	△



Q.21 40 is related to 53 following certain logic. Following the same logic, 8 is related to 13. To which of the following numbers is 68 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

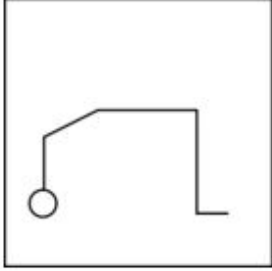
Ans  1. 84

2. 85

3. 83

4. 73

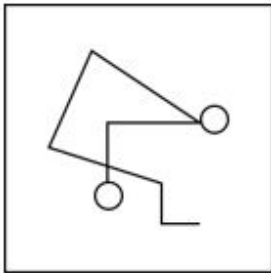
Q.22 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



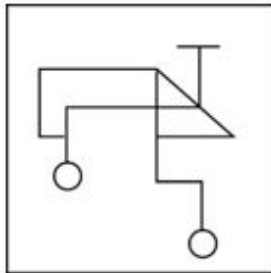
(X)

Ans

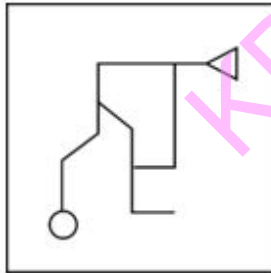
1.



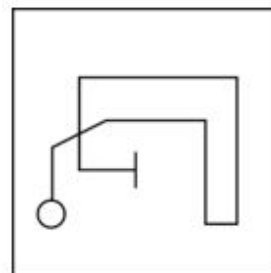
2.



3.



4.



**Q.23** Three of the following numbers are alike in a certain way and one is different. Pick the odd one out.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**  1. 11 – 882  
 2. 3 – 72  
 3. 4 – 128  
 4. 7 – 392

**Q.24** The position of how many letters will remain unchanged if each of the letter in the word 'HUSBAND' is arranged in English alphabetical order?

- Ans**  1. Three  
 2. Zero  
 3. One  
 4. Two

**Q.25** Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

\_\_ C \_ D C \_\_ C C \_\_

- Ans**  1. CCDCCDD  
 2. CDCCDDC  
 3. DCCCDCC  
 4. DDCCDD

Section : General Awareness

**Q.1** The Pandya Kingdom was first mentioned by Megasthenes, who said that their kingdom was famous for pearls. Their capital was:

- Ans**  1. Thanjavur  
 2. Uraiyur  
 3. Madurai  
 4. Kaveripatnam

**Q.2** Harivaranam award is given in the field of music by which of the following state governments?

- Ans**  1. Kerala  
 2. Karnataka  
 3. Maharashtra  
 4. Himachal Pradesh

**Q.3** Easter festival is celebrated by which community?

- Ans**  1. Christian  
 2. Parsi  
 3. Hindu  
 4. Sikh

**Q.4** Which of the following Sikh reform movements was started in 1873 in Amritsar?

- Ans**  1. Babbar Akali Movement  
 2. Akali Movement  
 3. Singh Sabha Movement  
 4. Gurudwara Movement

**Q.5** 'Bhagirathi' and 'Alaknanda' rivers confluence at:

- Ans**
- 1. Joshimath
  - 2. Haridwar
  - 3. Karanprayag
  - 4. Devaprayag

**Q.6** Which of the following institutions has contributed mainly in improving the economic status of the poor women in rural areas?

- Ans**
- 1. Indira Awas Yojana
  - 2. Integrated Development Project
  - 3. Self-help Group
  - 4. Rural Health Scheme

**Q.7** Identify a spiral-shaped bacteria.

- Ans**
- 1. Bacillus
  - 2. Spirillum
  - 3. Coccus
  - 4. Vibrio

**Q.8** In which year did the Central Government launch the National Air Sports Policy?

- Ans**
- 1. 2022
  - 2. 2021
  - 3. 2023
  - 4. 2020

**Q.9** As of 14 October 2021, which Indian footballer was in the news for breaking Pele's 77 international goals?

- Ans**
- 1. Bhaichung Bhutia
  - 2. Sunil Chhetri
  - 3. Gurpreet Singh Sandhu
  - 4. Sandesh Jhingan

**Q.10** Which of the following Acts introduced 'provincial autonomy' by discontinuing the application of dyarchy?

- Ans**
- 1. Government of India Act, 1919
  - 2. Charter Act of 1813
  - 3. India Council Act, 1909
  - 4. Government of India Act, 1935

**Q.11** Which committee recommended Constitutional recognition for the local government bodies in 1989?

- Ans**
- 1. Ashok Mehta Committee
  - 2. PK Thungon Committee
  - 3. Balwant Rai Committee
  - 4. Verma Committee

**Q.12** Which of the following is NOT related to reticulate venation?

- Ans**
- 1. China rose
  - 2. Tulsi
  - 3. Maize
  - 4. Coriander

Q.13 In which of the following Major Rock Edicts of Ashoka is the Kalinga war mentioned?

- Ans
- 1. XII
  - 2. X
  - 3. XIII
  - 4. XI

Q.14 Who among the following is NOT a member of the National Human Rights Commission?

- Ans
- 1. District Magistrate
  - 2. Former Chief Justice of the High Court
  - 3. Former Chief Justice of the Supreme Court
  - 4. Former Judge of the Supreme Court

Q.15 Which of the following is an inosilicate amphibole mineral used in highway construction and as railroad ballast?

- Ans
- 1. Shale
  - 2. Olivine
  - 3. Geyselite
  - 4. Hornblende

Q.16 Ranjana Prakash Desai who became the first woman chairperson of the Press Council of India originally worked in which of the following organs of the government?

- Ans
- 1. Legislature
  - 2. Judiciary
  - 3. Vigilance
  - 4. Executive

Q.17 Which state of India has the maximum number of large dams?

- Ans
- 1. Maharashtra
  - 2. Madhya Pradesh
  - 3. Odisha
  - 4. Rajasthan

Q.18 Identify a monoatomic molecule.

- Ans
- 1. carbon monoxide
  - 2. Oxygen
  - 3. Helium
  - 4. Chlorine

Q.19 According to Census 2011, which district displays the highest population?

- Ans
- 1. Kollam
  - 2. Ajmer
  - 3. Thane
  - 4. Pune

Q.20 Consider the following statements and identify the INCORRECT statement(s).

1. The 'Saksham Anganwadi and Poshan 2.0' scheme has been implemented under the National Food Security Act, 2003.
2. It is an ongoing, Central Government-sponsored scheme under the Ministry of Women and Child Development.
3. It is extended to children aged below 6 years only.
4. Six services are provided under this scheme through the National Health Mission and Public Health Infrastructure.

- Ans
- 1. Only 1, 3 and 4
  - 2. Only 4
  - 3. Only 1, 2 and 3
  - 4. Only 2 and 3

Q.21 In which five-year plan was the 'food, work, and productivity' slogan used?

- Ans
- 1. Sixth
  - 2. Fifth
  - 3. Fourth
  - 4. Seventh

Q.22 Which of the following chemical reactions takes place when quick lime reacts with water?

- Ans
- 1.  $\text{CaO(s)} + \text{H}_2\text{O(l)} \rightarrow \text{Ca} + \text{H}_2\text{(aq)}$
  - 2.  $\text{C(s)} + \text{O}_2\text{(g)} \rightarrow \text{CO}_2\text{(g)}$
  - 3.  $\text{CaO(s)} + \text{H}_2\text{O(l)} \rightarrow \text{Ca(OH)}_2\text{(aq)}$
  - 4.  $\text{CH}_4\text{(g)} + 2\text{O}_2\text{(g)} \rightarrow \text{CO}_2\text{(g)} + 2\text{H}_2\text{O(g)}$

Q.23 With which of the following dances is Yamini Krishnamurthy associated?

- Ans
- 1. Bharatanatyam
  - 2. Mohiniyattam
  - 3. Odissi
  - 4. Sattriya

Q.24 Who among the following is the first vocalist to receive the Bharat Ratna in 2008 and is also credited to have popularised 'Khyal Gayaki'?

- Ans
- 1. Pandit Bhimsen Joshi
  - 2. Begum Akhtar
  - 3. Vishnu Digambar Palushkar
  - 4. Gangubai Hangal

Q.25 The third edition of the Khelo India University Games was hosted by which of the following states?

- Ans
- 1. Uttar Pradesh
  - 2. Haryana
  - 3. Punjab
  - 4. Madhya Pradesh

Section : Quantitative Aptitude

Q.1 Two equal circles pass through each other's centre. If the radius of each of the circle is 13 cm, then what is the length of the common chord?

- Ans
- 1.  $13\sqrt{6}$  cm
  - 2.  $7\sqrt{3}$  cm
  - 3.  $13\sqrt{2}$  cm
  - 4.  $13\sqrt{3}$  cm

Q.2 If the 9-digit number  $5x79856y6$  is divisible by 36, then what is the negative value of  $\sqrt{(2x + y)}$  for the largest possible value of  $y$ , given  $x$  and  $y$  are natural numbers?

- Ans
- 1. -7
  - 2. -2
  - 3. -4
  - 4. -5

**Q.3** Anna and Ben each have a collection of marbles. If Anna gives one marble to Ben, they will both have an equal number of marbles. Conversely, if Ben gives one marble to Anna, she will end up with three times the number of marbles that Ben has. What is the total number of marbles they both have?

- Ans**
- 1. 10
  - 2. 8
  - 3. 11
  - 4. 9

**Q.4** If  $A:B = 6 : 8$  and  $B:C = 7 : 12$ , then  $A:B:C$  is:

- Ans**
- 1. 14:31:20
  - 2. 21:32:40
  - 3. 11:23:40
  - 4. 21:28:48

**Q.5** The value of  $9 - 5 \times 6 + \{29 - (7 - 2)\} \div 8$  is:

- Ans**
- 1. -8
  - 2. 18
  - 3. -18
  - 4. 8

**Q.6** A man can row a distance of 6 km in 1 hour in still water. He can row the same distance in 45 minutes with the current. Find the total time taken by him to row a distance of 16 km with the current and to return to the starting point.

- Ans**
- 1. 4 hours and 40 minutes
  - 2. 6 hours
  - 3. 4 hours
  - 4. 6 hours and 40 minutes

**Q.7** If  $3a + 2b = 27$  and  $27a^3 + 8b^3 = 1458$ , then find  $2ab$ .

- Ans**
- 1. 72
  - 2. 70
  - 3. 77
  - 4. 75

**Q.8** The side MN of a parallelogram MNOP is produced to Q such that  $MN = NQ$ . PQ intersects ON at R. The point R divides ON in the ratio:

- Ans**
- 1. 3 : 1
  - 2. 2 : 1
  - 3. 1 : 2
  - 4. 1 : 1

Q.9 The following table gives the total number of employees in 5 different companies A, B, C, D and E and the percentage of males and females. Study the table carefully and answer the question. Find the number of females in companies A, C and E put together.

Companies	Total No. of Employees	Percentage of males	Percentage of females
A	600	75	25
B	570	65	35
C	700	70	30
D	800	55	45
E	850	60	40

- Ans  1. 700  
 2. 675  
 3. 650  
 4. 725

Q.10 Simplify the given expression.

$$\frac{(4x^2+9y^2-12xy)}{(3y-2x)}$$

- Ans  1.  $2y - 3x$   
 2.  $3y - 2x$   
 3.  $2x - 3y$   
 4.  $3x - 2y$

Q.11  $\sin A \sin B =$  \_\_\_\_\_.

- Ans  1.  $\frac{1}{2}\{\sin(A+B) + \sin(A-B)\}$   
 2.  $\frac{1}{2}\{\sin(A+B) - \sin(A-B)\}$   
 3.  $\frac{1}{2}\{\cos(A+B) - \cos(A-B)\}$   
 4.  $\frac{1}{2}\{\cos(A-B) - \cos(A+B)\}$

Q.12 An investor, invested ₹2,00,000 in shares. The shares rose by 18% on the first day, fell by 15% on the second day, and then fell by 3% on the third day. What is the net percentage increase or decrease in the value of the investor's shares? (Rounded up to one decimal place)

- Ans  1. increase by 2.2%  
 2. increase by 2.7%  
 3. decrease by 2.7%  
 4. decrease by 2.2%

Q.13 The following table shows the expenditure of a company (in ₹ lakh) per annum over the given years. Study the table and answer the question that follows.

Year	Salary	Bonus	Interest on loans	Fuel and transport	Taxes
2005	348	3.00	25.0	110	75
2006	405	4.25	28.5	145	90
2007	458	4.50	30.5	120	120
2008	389	4.85	38.0	168	100
2009	425	4.90	48.5	190	140

The total amount of bonus paid by the company during the given period is what percentage of the total amount of fuels and transport paid during this period (correct to two places of decimals)?

- Ans
- 1. 3.92%
  - 2. 2.39%
  - 3. 3.29%
  - 4. 2.93%

Q.14 If we extend a chord infinitely on both sides, then the chord becomes a \_\_\_\_\_.

- Ans
- 1. diameter
  - 2. tangent
  - 3. secant
  - 4. normal

Q.15 Aman borrows a sum of ₹192208 at the rate of 15% per annum simple interest. At the end of the first year, he repays ₹20196 towards return of principal amount borrowed. If Aman clears all pending dues at the end of the second year, including interest payment that accrued during the first year, how much does he pay (in ₹) at the end of the second year?

- Ans
- 1. 226645
  - 2. 221777
  - 3. 221757
  - 4. 230028

Q.16 A seller sold 19 cookies for ₹95 instead of 20 cookies in one kg, cheating a customer. What is the gain (in ₹) if the seller bought the cookies for ₹76?

- Ans
- 1. 28.2
  - 2. 26.2
  - 3. 22.8
  - 4. 25.8

Q.17 Find the area (in  $\text{cm}^2$ ) of the sector, where the radius of the circle is 24 cm and length of the arc is 7 cm.

- Ans
- 1. 72
  - 2. 84
  - 3. 48
  - 4. 168

Q.18 If the selling price of an article is ₹1,792 after a 20% discount, then the marked price of the article is:

- Ans
- 1. ₹2,140
  - 2. ₹2,240
  - 3. ₹2,160
  - 4. ₹2,260



Q.19 Pipe Q can fill the tank in 60 hours while pipe R may fill in 45 hours. Q and R pipes are opened together for 6 hours after which pipe W is also opened to empty the tank. All three pipes are opened simultaneously for 24 hours to reach the half level mark. How much time (in hours) will pipe W alone take to empty the entire tank?

- Ans
- 1. 48
  - 2. 42
  - 3. 36
  - 4. 30

Q.20 Study the given table and answer the question that follows.  
The table represents the number of scooters (in thousands) manufactured by four companies A, B, C and D from the period 2012 to 2015.

Years	A	B	C	D
2012	360	420	380	520
2013	580	940	570	980
2014	1000	780	1020	1090
2015	1240	950	1180	1660

The average number of scooters produced by company D is what per cent (rounded off to 2 decimal places) more than the combined average number of scooters produced by the three companies A, B, and C?

- Ans
- 1. 52.75%
  - 2. 27.25%
  - 3. 44.66%
  - 4. 35.35%

Q.21 The given expression is equivalent to:

$$\sqrt{\frac{\sec \theta + 1}{\sec \theta - 1}} + \sqrt{\frac{\sec \theta - 1}{\sec \theta + 1}}$$

- Ans
- 1.  $2 \sin \theta$
  - 2.  $2 \operatorname{cosec} \theta$
  - 3.  $2 \tan \theta$
  - 4.  $2 \tan \theta \sec \theta$

Q.22 What is the value of  $\sqrt{\frac{9 \sin^2 26^\circ + 9 \sin^2 64^\circ + 36}{32 - 7 \cos^2 32^\circ - 7 \cos^2 58^\circ}}$ ?

- Ans
- 1.  $\frac{3\sqrt{5}}{5}$
  - 2.  $\frac{5\sqrt{3}}{3}$
  - 3.  $\frac{5\sqrt{5}}{3}$
  - 4.  $\frac{3\sqrt{3}}{5}$

Q.23 Find the average of first 125 natural numbers.

- Ans
- 1. 62.5
  - 2. 63
  - 3. 62
  - 4. 63.5

Q.24 There is constant growth rate (in %) every year in the production of a company as seen the given table.

Year	2018	2019	2020
Production (in units)	9000	10,800	X

Find the value of 'X' from the data given in the table.

- Ans
- 1. 12600
  - 2. 11880
  - 3. 12000
  - 4. 12960

Q.25 What is the volume of a cone (in cubic units) with radius 3 units and slant height  $3\sqrt{2}$  units?

- Ans
- 1.  $18\pi$
  - 2.  $\frac{10\pi}{3}$
  - 3.  $\frac{9\pi}{2}$
  - 4.  $9\pi$

Section : English Comprehension

Q.1 Identify the correct antonym for the given word.  
Envious

- Ans
- 1. Generous
  - 2. Suspicious
  - 3. Malicious
  - 4. Untrustworthy

Q.2 Select the most appropriate verb / verb phrase to fill in the blank.  
They \_\_\_\_\_ their house for the past two months, and it's finally starting to look fantastic.

- Ans
- 1. were renovating
  - 2. will renovate
  - 3. has renovated
  - 4. have been renovating

Q.3 Select the most appropriate option to substitute the underlined segment in the given sentence.  
Do you know where does she reside ?

- Ans
- 1. where does she resides?
  - 2. where she reside?
  - 3. where she resides?
  - 4. where do she reside?

Q.4 Select the option that expresses the given sentence in passive voice.  
People will respect his bravado.

- Ans
- 1. His bravado will being respected by people.
  - 2. His bravado will have to be respected by people.
  - 3. His bravado will be respected by people.
  - 4. His bravado will be respect by people.

Q.5 Select the word with the correct spelling to fill in the blank.  
Hiren loves to use \_\_\_\_\_ words while writing anything.

- Ans
- 1. coloquial
  - 2. colloquial
  - 3. colloquil
  - 4. colloqual

Q.6 Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.

Dhara \_\_\_\_\_ the way to Mumbai. [lost]

- Ans
- 1. paved
  - 2. slept
  - 3. found
  - 4. helped

Q.7 Select the most appropriate synonym of the given word.

Mellifluous

- Ans
- 1. Distinct
  - 2. Musical
  - 3. Loud
  - 4. Cacophonous

Q.8 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

A: new facts and advanced

B: but my opinion is

C: he has discovered

D: unchanged

E: new arguments

- Ans
- 1. DACBE
  - 2. CAEBD
  - 3. BDAEC
  - 4. EBDCA

Q.9 Select the option that expresses the given sentence in passive voice.

People know Stellenbosch for its greenery and delicious street foods.

- Ans
- 1. Stellenbosch was known to people for its greenery and delicious street foods.
  - 2. Stellenbosch is known to people for its greenery and delicious street foods.
  - 3. Stellenbosch had been known to people for its greenery and delicious street foods.
  - 4. Stellenbosch have been known to people for its greenery and delicious street foods.

Q.10 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

He never talks / for anybody. / He is alone / all day.

- Ans
- 1. He is alone
  - 2. for anybody
  - 3. He never talks
  - 4. all day

Q.11 Select the most appropriate synonym of the underlined word in the given sentence.

A period of free outdoor play can provide a very necessary respite from the hustle and bustle of the day.

- Ans
- 1. Progression
  - 2. Commencement
  - 3. Break
  - 4. Continuation

**Q.12** Select the option that can be used as a one-word substitute for the given group of words.  
Much more than usual or expected

- Ans**
- 1. Mordancy
  - 2. Ordinate
  - 3. Subordinate
  - 4. Exceeding

**Q.13** Select the most appropriate ANTONYM of the underlined word in the given sentence.  
Coffee was too hot; it burnt my tongue.

- Ans**
- 1. Scorching
  - 2. Frigid
  - 3. Balmy
  - 4. Subtle

**Q.14** Select the most appropriate ANTONYM of the given word.  
Triumphant

- Ans**
- 1. Flourishing
  - 2. Unsuccessful
  - 3. Jubilant
  - 4. Tender

**Q.15** Select the option that can be used as a one-word substitute for the given group of words.

A short stay that you make while on a longer journey

- Ans**
- 1. Saga
  - 2. Stopover
  - 3. Refugee
  - 4. Tent

**Q.16** Select the most appropriate meaning of the given idiom.  
Creature of habit

- Ans**
- 1. A mean person
  - 2. A bad habit
  - 3. A faithful dog
  - 4. One who does same thing in the same way

**Q.17** Select the most appropriate option to substitute the underlined segment in the given sentence.  
A computer can't function without it's mother board.

- Ans**
- 1. its
  - 2. his
  - 3. their
  - 4. it is

**Q.18** Select the most appropriate meaning of the given idiom.

Hit the roof

- Ans**
- 1. To destruct a building
  - 2. To become very angry
  - 3. To jump high
  - 4. To play joyfully

**Q.19** Select the option that can be used as a one-word substitute for the given group of words.  
Having unlimited power

- Ans**
- 1. Omnipotent
  - 2. Omnipresence
  - 3. Omniscient
  - 4. Omnivorous

**Q.20** Select the INCORRECTLY spelt word in the given sentence.

Economics began with growth and removal of poverty as its grand theme.

- Ans**
- 1. Poverty
  - 2. Grand
  - 3. Removal
  - 4. Economics

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

According to a poll conducted in 2018–19 by an online internship and training platform, (1)\_\_\_\_\_ number of businesses actively (2)\_\_\_\_\_ intern profiles has increased over the previous five years. This study demonstrates that India received 80% more internship applications in 2018, with 2.2 million applications (3)\_\_\_\_\_ 1.27 million in 2017. The rise was influenced (4)\_\_\_\_\_ part by an increase in the number of industries seeking fresh perspectives and innovative ideas to improve (5)\_\_\_\_\_ on existing projects. Obtaining an internship prior to entering the job market, which was once viewed as a Western concept, is quickly gaining steam in Indian workplaces.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. few
  - 2. a
  - 3. the
  - 4. an

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

According to a poll conducted in 2018–19 by an online internship and training platform, (1)\_\_\_\_\_ number of businesses actively (2)\_\_\_\_\_ intern profiles has increased over the previous five years. This study demonstrates that India received 80% more internship applications in 2018, with 2.2 million applications (3)\_\_\_\_\_ 1.27 million in 2017. The rise was influenced (4)\_\_\_\_\_ part by an increase in the number of industries seeking fresh perspectives and innovative ideas to improve (5)\_\_\_\_\_ on existing projects. Obtaining an internship prior to entering the job market, which was once viewed as a Western concept, is quickly gaining steam in Indian workplaces.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. seeking
  - 2. neglecting
  - 3. declining
  - 4. reducing

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

According to a poll conducted in 2018–19 by an online internship and training platform, (1)\_\_\_\_\_ number of businesses actively (2)\_\_\_\_\_ intern profiles has increased over the previous five years. This study demonstrates that India received 80% more internship applications in 2018, with 2.2 million applications (3)\_\_\_\_\_ 1.27 million in 2017. The rise was influenced (4)\_\_\_\_\_ part by an increase in the number of industries seeking fresh perspectives and innovative ideas to improve (5)\_\_\_\_\_ on existing projects. Obtaining an internship prior to entering the job market, which was once viewed as a Western concept, is quickly gaining steam in Indian workplaces.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. similar to
  - 2. according to
  - 3. compared to
  - 4. combine to

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

According to a poll conducted in 2018–19 by an online internship and training platform, (1)\_\_\_\_\_ number of businesses actively (2)\_\_\_\_\_ intern profiles has increased over the previous five years. This study demonstrates that India received 80% more internship applications in 2018, with 2.2 million applications (3)\_\_\_\_\_ 1.27 million in 2017. The rise was influenced (4)\_\_\_\_\_ part by an increase in the number of industries seeking fresh perspectives and innovative ideas to improve (5)\_\_\_\_\_ on existing projects. Obtaining an internship prior to entering the job market, which was once viewed as a Western concept, is quickly gaining steam in Indian workplaces.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. on
  - 2. to
  - 3. up
  - 4. in

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

According to a poll conducted in 2018–19 by an online internship and training platform, (1)\_\_\_\_\_ number of businesses actively (2)\_\_\_\_\_ intern profiles has increased over the previous five years. This study demonstrates that India received 80% more internship applications in 2018, with 2.2 million applications (3)\_\_\_\_\_ 1.27 million in 2017. The rise was influenced (4)\_\_\_\_\_ part by an increase in the number of industries seeking fresh perspectives and innovative ideas to improve (5)\_\_\_\_\_ on existing projects. Obtaining an internship prior to entering the job market, which was once viewed as a Western concept, is quickly gaining steam in Indian workplaces.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. effecting
  - 2. effortless
  - 3. efficiencies
  - 4. efficient

## Combined Graduate Level Examination 2024 Tier I

Exam Date	19/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** 17 is related to 21 following a certain logic. Following the same logic, 22 is related to 36. To which of the following is 29 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. 58
  - 2. 49
  - 3. 46
  - 4. 57

**Q.2** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

**Statements:**

Some eagles are sparrows.  
All sparrows are parrots.  
No parrot is a penguin.

**Conclusions:**

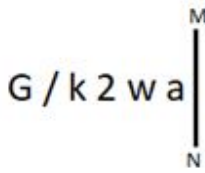
(I) Some parrots are eagles.  
(II) No penguin is a sparrow.

- Ans**
- 1. Both conclusions I and II follow.
  - 2. Neither conclusion I nor II follows.
  - 3. Only conclusion II follows.
  - 4. Only conclusion I follows.

**Q.3** Which of the following numbers will replace the question mark (?) in the given series?  
3, 17, 83, 329, ?, 1961

- Ans**
- 1. 983
  - 2. 883
  - 3. 880
  - 4. 980

Q.4 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

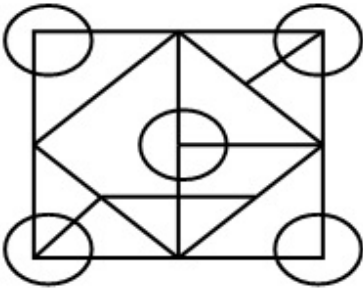


- Ans
- ✓ 1. ɹ ʌ ʍ 2 k \ / ǝ
  - ✗ 2. w a ʌ 2 k \ / ǝ
  - ✗ 3. a w ʌ 2 k \ / G
  - ✗ 4. ɹ ʌ ʍ a 2 \ / ǝ

Q.5 In a certain code language, 'TOUGH' is coded as '89251' and 'GHOST' is coded as '93258'. What is the code for 'S' in the given code language?

- Ans
- ✗ 1. 9
  - ✓ 2. 3
  - ✗ 3. 8
  - ✗ 4. 1

Q.6 How many triangles are there in the given figure?



- Ans
- ✗ 1. 14
  - ✗ 2. 13
  - ✗ 3. 16
  - ✓ 4. 15

Q.7 Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $20 + 10 \times 2 - 4 \div 5 = ?$

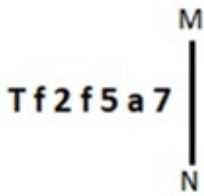
- Ans
- ✗ 1. 45
  - ✗ 2. 30
  - ✓ 3. 35
  - ✗ 4. 40

Q.8 'Wander' is related to 'Ramble' in the same way as 'Stray' is related to '\_\_\_\_\_'.  
 (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- ✗ 1. Trek
  - ✗ 2. Steady
  - ✓ 3. Random
  - ✗ 4. Constant



Q.9 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans
- 1. 7a2f5tT
  - 2. 7a2f5tT
  - 3. 7a2f5tT
  - 4. 7a5t2tT

Q.10 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

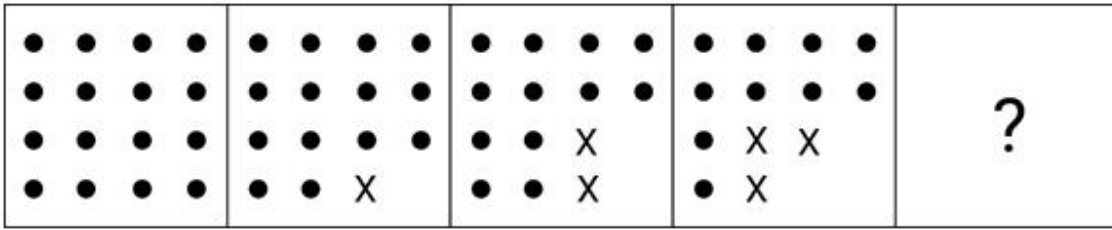
11 – 14 – 8 – 17; 12 – 15 – 9 – 18

- Ans
- 1. 3 – 6 – 2 – 8
  - 2. 5 – 8 – 3 – 10
  - 3. 4 – 7 – 12 – 18
  - 4. 6 – 9 – 3 – 12

Q.11 Each of the letters in the word 'KEYBOARD' are arranged in the English alphabetical order. How many letters are in the English alphabetical order between the letter which is the third from the right end and the second from the right end in the group of letters thus formed?

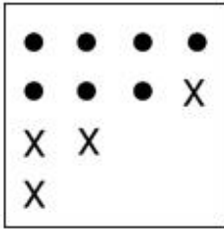
- Ans
- 1. Four
  - 2. Three
  - 3. Two
  - 4. One

Q.12 Identify the figure from among the given options which when put in place of the question mark (?) will logically complete the series.

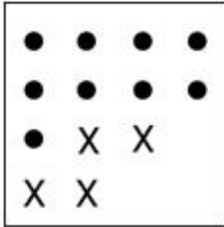


Ans

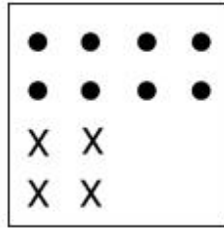
1.



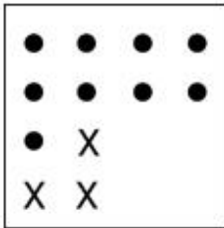
2.



3.



4.



Q.13 In a certain code language, 'SHE' is written as 'EIT' and 'SAD' is written as 'DBT'. How will 'SUN' be written in that language?

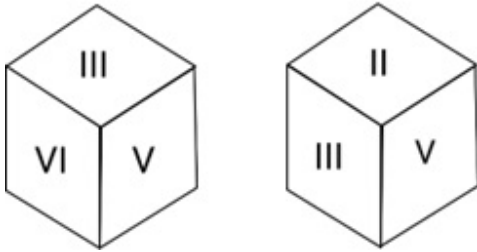
- Ans
- 1. NTV
  - 2. NTY
  - 3. NYT
  - 4. NVT

Q.14 Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

B \_ E N B \_ C E N B B C \_ N B B C E \_ B \_ C

- Ans
- 1. BCENB
  - 2. BNECB
  - 3. CNEBB
  - 4. CBENB

Q.15 Six Roman numbers I, II, III, IV, V and VI are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the Roman number on the face opposite to 'VI'.



- Ans
- 1. V
  - 2. II
  - 3. III
  - 4. IV

Q.16 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

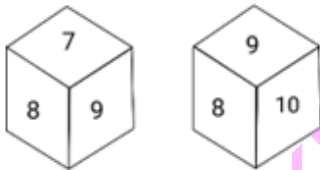
$$1205 \times 5 + 35 - 197 \div 18 = ?$$

- Ans
- 1. 3482
  - 2. 3752
  - 3. 3824
  - 4. 3284

Q.17 Which of the following terms will replace the question mark (?) in the given series?  
AWSO, KGCY, UQMI, EAWS, ?

- Ans
- 1. OKGC
  - 2. WAEI
  - 3. ZWTQ
  - 4. OGKH

Q.18 Six numbers 5, 6, 7, 8, 9 and 10 are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the number on the face opposite to '7'.



- Ans
- 1. 6
  - 2. 9
  - 3. 8
  - 4. 10

Q.19 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- 1. CHE
  - 2. AGD
  - 3. MSP
  - 4. FLI

Q.20 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

14 : 30 :: 9 : 20 :: 4 : ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 11
  - 2. 13
  - 3. 12
  - 4. 10

Q.21 Identify the figure given in the options which when put in place of ? will logically complete the series.



Ans

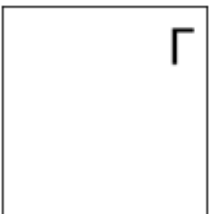
1.



2.



3.



4.



Q.22 BIRTHDAY - IBTRDHYA  
BLAZER - LBZARE  
REMOVE - ?

Using the same logic as applied for the first two pairs of terms, select the term that can replace the question mark (?) in the third pair.

- Ans
- 1. ERMOVE
  - 2. EROMVE
  - 3. EROMEV
  - 4. EVOMER

Q.23 In a certain code language,  
'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A × B' means 'A is the wife of B' and  
'A ÷ B' means 'A is the father of B'.

Based on the above, how is A related to D if 'A × B ÷ C × D'?

- Ans
- 1. Father-in-law
  - 2. Father's sister
  - 3. Wife's mother
  - 4. Father's brother

Q.24 'RUCK' is related to 'TWAI' in a certain way based on the English alphabetical order. In the same way, 'DPHM' is related to 'FRFK'. To which of the following is 'KNOM' related, following the same logic?

- Ans
- 1. IQNK
  - 2. MQNJ
  - 3. MPMK
  - 4. IPMJ

Q.25 The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 19 : 3
  - 2. 55 : 9
  - 3. 49 : 8
  - 4. 24 : 4

Section : General Awareness

Q.1 Pandit Omkar Nath Thakur was a student of \_\_\_\_\_.

- Ans
- 1. Ustad Abdul Karim Khan
  - 2. Pandit Vishnu Digambar Paluskar
  - 3. Pandit Gopal Shankar Mishra
  - 4. Pandit Vishnu Narayan Bhatkhande

Q.2 As per a report of the Ministry of Labour and Employment, what was the rate of unemployment in Maharashtra for the year 2021-22?

- Ans
- 1. 3.5%
  - 2. 3.01%
  - 3. 4.2%
  - 4. 4.4%

Q.3 Navratri festival is dedicated to which of the following Goddesses?

- Ans
- 1. Jawala
  - 2. Laxmi
  - 3. Durga
  - 4. Saraswati

Q.4 Khudai Khidmatgar, a voluntary organisation, was established by which of the following leaders of India?

- Ans
- 1. Muhammad Ali Jinnah
  - 2. Khan Abdul Ghaffar Khan
  - 3. Hakim Ajmal Khan
  - 4. Maulana Muhammad Ali

**Q.5** Vijender Singh has represented India in Olympics for how many times?

- Ans**
- 1. 4
  - 2. 5
  - 3. 3
  - 4. 2

**Q.6** In which sport did India win its first individual Olympic medal?

- Ans**
- 1. Swimming
  - 2. Judo
  - 3. Wrestling
  - 4. Shooting

**Q.7** Who among the following was one of the recipients of the inaugural 'Prof CR Rao Centenary Gold Medal' award in 2021?

- Ans**
- 1. Raghuram Rajan
  - 2. Surjit Bhalla
  - 3. Amartya Sen
  - 4. Jagdish Bhagwati

**Q.8** Who among the following classical dancers is NOT related to Odissi?

- Ans**
- 1. Geetanjali Lal
  - 2. Mayadhar Raut
  - 3. Kiran Segal
  - 4. Kumkum Mohanty

**Q.9** Which of the following Articles states that the Prime Minister should be appointed by the President?

- Ans**
- 1. Article 71
  - 2. Article 66
  - 3. Article 75
  - 4. Article 62

**Q.10** The oath of office to the Vice-President is administered by the \_\_\_\_\_.

- Ans**
- 1. Chief Justice of India
  - 2. President
  - 3. CAG
  - 4. Prime Minister

**Q.11** What was the name of the wind measuring instrument invented for the first time in 1450?

- Ans**
- 1. Transmissometer
  - 2. Dropsonde
  - 3. Anemometer
  - 4. Ceiling Projector

**Q.12** Due to which of the following events did Rabindranath Tagore return the title of 'Knighthood' to the British Government while expressing his anguish?

- Ans**
- 1. Charan Paduka Incident
  - 2. Partition of Bengal
  - 3. Jallianwala Bagh massacre
  - 4. Chauri Chaura Incident

**Q.13** Tarun Bhattacharya, who was awarded the Sangeet Natak Akademi Award in 2018, is known for playing which musical instrument?

- Ans**
- 1. Santoor
  - 2. Violin
  - 3. Tabla
  - 4. Sitar

**Q.14** Which of the following is an example of Phylum Arthropoda?

- Ans**
- 1. Nereis
  - 2. Butterfly
  - 3. Hirudinaria
  - 4. Pila

**Q.15** As per the Timurid tradition, Humayun had to share power with his brothers. Humayun had the control of Delhi, Agra and Central India, while his brother Kamran controlled which of the following regions?

- Ans**
- 1. Afghanistan and Punjab
  - 2. Deccan
  - 3. Gujarat and Rajasthan
  - 4. Bengal and Bihar

**Q.16** Which two organic chemists are known for observing the peroxide effect in adding reagents to unsaturated compounds in 1933?

- Ans**
- 1. Morris S Kharasch and Frank R Mayo
  - 2. C John Cadogan and Luis M Campos
  - 3. B Steven Bachrach and Roald Hoffmann
  - 4. Justus von Liebig and Friedrich Wöhler

**Q.17** Which of the following is NOT a Fundamental Duty?

- Ans**
- 1. To prohibit trade in rare and endangered species
  - 2. To value and preserve rich heritage of the country's composite culture
  - 3. To safeguard public property and to abjure violence
  - 4. To uphold and protect the sovereignty, unity and integrity of India

**Q.18** What were the main obstacles during the industrial development of India at the time of independence?

- Ans**
- 1. Market for industrial produce
  - 2. Capital investment in industries
  - 3. Employment required for industries
  - 4. Land for industrial establishment

**Q.19** Which of the following is NOT a unit of energy?

- Ans**
- 1. Joule
  - 2. Calorie
  - 3. Newton
  - 4. Kilowatt hour

**Q.20** Which of the following is a component of the SHG-bank linkage program in India?

- Ans**
- 1. Microfinance institutions providing loans directly to SHGs
  - 2. Banks providing loans to individual members of SHGs
  - 3. Non-governmental organisations providing capacity building training to SHGs
  - 4. State government providing subsidies to SHGs for credit

Q.21 In which of the following years was the Right of Persons with Disabilities Act passed?

- Ans
- 1. 2010
  - 2. 2002
  - 3. 2016
  - 4. 2019

Q.22 The Wardha is a tributary of which of the following rivers?

- Ans
- 1. Mahanadi river
  - 2. Tapi river
  - 3. Godavari river
  - 4. Narmada river

Q.23 During which of the following rules did Buddhism get split into two schools - Hinayana and Mahayana in the fourth Buddhist council?

- Ans
- 1. Kushana
  - 2. Parthian
  - 3. Gupta
  - 4. Shaka

Q.24 As of Financial year 2019, which of the following state has the highest road density in India?

- Ans
- 1. Haryana
  - 2. Tamil Nadu
  - 3. Kerala
  - 4. Punjab

Q.25 What is the other name of tetanus caused by toxin producing bacteria called clostridium tetani?

- Ans
- 1. Lockjaw
  - 2. Snap jaw
  - 3. Cleft jaw
  - 4. Broken jaw

Section : Quantitative Aptitude

Q.1 WXYZ is a quadrilateral in which XQ and ZP are perpendicular to WY such that XQ = ZP. Diagonals ZX and WY intersect each other at point O. If OX = 12 cm, then find the value of ZX (in cm).

- Ans
- 1. 12
  - 2. 24
  - 3. 36
  - 4. 18

Q.2 The area of a parallelogram with base 26 cm and height 18 cm is:

- Ans
- 1.  $234 \text{ cm}^2$
  - 2.  $936 \text{ cm}^2$
  - 3.  $932 \text{ cm}^2$
  - 4.  $468 \text{ cm}^2$



Q.3 R is a point outside a circle and is 18 cm away from its centre. A secant drawn from the point R intersects the circle at points A and B in such a way that  $RA = 7$  cm and  $AB = 5$  cm. The radius of the circle (in cm) is:

- Ans
- ✓ 1.  $4\sqrt{15}$
  - ✗ 2.  $5\sqrt{15}$
  - ✗ 3.  $7\sqrt{15}$
  - ✗ 4.  $3\sqrt{15}$

Q.4 The value of the expression  $\sin x + \operatorname{cosec} x = 2$ , then the value of  $\sin^7 x + \operatorname{cosec}^7 x$  is:

- Ans
- ✗ 1. 0
  - ✗ 2. 1
  - ✓ 3. 2
  - ✗ 4. 4

Q.5 The marks of 6 students are given. All the marks are out of 100.

Student	English	Hindi	Maths	Physics	Chemistry	Biology
A	70	60	99	80	80	75
B	75	65	85	75	75	70
C	80	80	70	60	70	60
D	72	63	65	70	60	60
E	70	60	60	60	55	55
F	60	60	70	70	60	50

Find the percentage scored by C.

- Ans
- ✗ 1. 75%
  - ✓ 2. 70%
  - ✗ 3. 68%
  - ✗ 4. 65%

Q.6 The following table shows the sales during two seasons of a company. Study the table and answer the question that follows.

Sales in summer season (in ₹)			Sales in winter season (in ₹)		
May	June	July	November	December	January
25,000	24,000	18,000	35,000	26,000	22,000

What is the percentage share of sales during months of June and July to the total sales?

- Ans
- ✓ 1. 28%
  - ✗ 2. 30%
  - ✗ 3. 33%
  - ✗ 4. 24%

Q.7 In a family, the combined age of husband, wife and a son is 90 years. The husband is the oldest. The difference in the ages of the husband and wife is  $\frac{1}{3}$ rd the age of their son. After 10 years, the age of the son would be half the age of his father. What is the present age of his mother (in years)?

- Ans
- 1. 40
  - 2. 45
  - 3. 35
  - 4. 30

Q.8 If  $\left(a + \frac{1}{a}\right) = 7\sqrt{3}$ , then what is the value of  $(a^6 + a^{-6})$ ?

- Ans
- 1. 3048190
  - 2. 3048542
  - 3. 3048132
  - 4. 3048625

Q.9 The table given below shows the marks obtained by four students in 4 different subjects. Maximum marks for each subject is 175.

Student	Subject			
	Mathematics	Physics	Chemistry	English
Amit	105	98	109	86
Gunja	112	119	99	97
Arpit	103	121	94	100
Kavya	108	102	104	120

What is the aggregate percentage of marks obtained by Gunja in all the four subjects?

- Ans
- 1. 67
  - 2. 61
  - 3. 58
  - 4. 71

Q.10 What number should be subtracted from  $x^3 - 4x^2 - 8x + 11$  to make the number divisible by  $(x + 2)$ ?

- Ans
- 1. 9
  - 2. 5
  - 3. 3
  - 4. 7

Q.11 If  $\sin A + \cos A = \sqrt{3}$ , then find the value of  $\tan A + \cot A + 2\sin A \cos A$ .

- Ans
- 1. 6
  - 2. 2
  - 3. 1
  - 4. 3

Q.12 Successive discounts of 10% and 20% are given on the purchase of a purse. If the marked price of the purse is ₹2,250, find the selling price.

- Ans
- 1. ₹1,320
  - 2. ₹1,620
  - 3. ₹1,290
  - 4. ₹1,520

Q.13 The cost of a diamond varies directly as the square of its weight. Once, this diamond broke into four pieces with weights in the ratio of 4 : 3 : 2 : 1. When the pieces were sold, the merchant got ₹63,000 less than that of one piece. Find the original price of the diamond.

- Ans
- 1. ₹86,000
  - 2. ₹80,000
  - 3. ₹90,000
  - 4. ₹75,000

Q.14 A vendor started selling vegetables at ₹10 per kg, but couldn't find buyers at this rate. So he reduced the price to ₹7.2 per kg, but uses a faulty weight of 900 g instead of 1 kg. Find the percentage change in the actual price.

- Ans
- 1. 10%
  - 2. 15%
  - 3. 20%
  - 4. 25%

Q.15 The cost of tomatoes per kg is increased by 300%. A housewife reduces her consumption of tomatoes by 70%. By what percentage does her expenditure on tomatoes increase or decrease?

- Ans
- 1. Decreases, 30%
  - 2. Decreases, 20%
  - 3. Increases, 30%
  - 4. Increases, 20%

Q.16 AB is a chord of length 32 cm of a circle of radius 20 cm, the tangents at A and B intersect at a point T. Find length TA (rounded off to two digits after decimal).

- Ans
- 1. 36.50 cm
  - 2. 21.33 cm
  - 3. 26.67 cm
  - 4. 19.93 cm

Q.17 The value of  $4\frac{1}{6} \div 25 \times 75 \div \frac{1}{5}$  of 125 is:

- Ans
- 1.  $\frac{1}{3}$
  - 2.  $\frac{1}{4}$
  - 3.  $\frac{1}{6}$
  - 4.  $\frac{1}{2}$

Q.18 Pipe X can fill a tank in 9 hours and Pipe Y can fill it in 21 hours. If they are opened on alternate hours and Pipe X is opened first, in how many hours shall the tank be full?

- Ans
- 1.  $10\frac{3}{7}$
  - 2.  $12\frac{3}{7}$
  - 3.  $9\frac{3}{7}$
  - 4.  $11\frac{3}{7}$

Q.19 P, Q and R are the three angles of a triangle. If  $P - Q = 20^\circ$  and  $Q - R = 26^\circ$ , then  $\angle P$  is equal to:

- Ans
- 1.  $52^\circ$
  - 2.  $46^\circ$
  - 3.  $92^\circ$
  - 4.  $82^\circ$

Q.20 Aman invested a sum of money in scheme A at the rate of 8% p.a. for a period of 5 years on simple interest. He invested four times of the sum of scheme A in scheme B at the rate of 5% p.a. for 7 years on simple interest. He received a total interest amount of ₹1,620. How much (in ₹) did he invest in scheme B?

- Ans
- 1. 2,400
  - 2. 900
  - 3. 3,200
  - 4. 3,600

Q.21 A student studying in 6th class scored the following marks in 6 subjects. The maximum marks for each subject are 100.

Subjects	Marks
Hindi	98
English	97
Mathematics	93
Social Science	94
Computer	92
Science	93

What are the average marks scored by the student?

- Ans
- 1. 92.5
  - 2. 96
  - 3. 95
  - 4. 94.5

Q.22 Two trains of lengths 150 m and 250 m run on parallel lines. When they run in the same direction, they take 20 seconds to cross each other and, when they run in the opposite direction, they take 5 seconds to cross each other. What is the speed of the two trains?

- Ans
- 1. 150 km/h and 105 km/h
  - 2. 150 km/h and 250 km/h
  - 3. 180 km/h and 108 km/h
  - 4. 160 km/h and 106 km/h

Q.23 Each of Ravi and Kavita had some marbles. Kavita had 12 more marbles than Ravi had. If each of them had one more marble, then three times the number of marbles Kavita would then have had would have been equal to four times the number of marbles Ravi would then have had. How many marbles did Kavita actually have?

- Ans
- 1. 43
  - 2. 47
  - 3. 51
  - 4. 48

Q.24 15 kg of ₹10 per kg wheat is mixed with 5 kg of another type of wheat to get a mixture costing ₹30 per kg. Find the price (per kg) of the costlier wheat.

- Ans
- 1. ₹70
  - 2. ₹80
  - 3. ₹60
  - 4. ₹90

Q.25 If  $3\sin^2\theta + 5\cos^2\theta = 4$  and  $\theta$  is an acute angle, then the value of  $\tan\theta$  is:

- Ans
- 1.  $\frac{1}{\sqrt{2}}$
  - 2.  $\frac{1}{\sqrt{3}}$
  - 3.  $\frac{1}{2}$
  - 4. 1

Section : English Comprehension

Q.1 Select the most appropriate meaning of the given idiom.

Start from scratch

- Ans
- 1. To start or create something from the very beginning
  - 2. To address an issue
  - 3. To develop something out of waste material
  - 4. To point out something wrong

Q.2 Select the most appropriate ANTONYM of the underlined word.

Evenings get dark very early in this cold weather.

- Ans
- 1. Shadowy
  - 2. Dim
  - 3. Bright
  - 4. Gloomy

Q.3 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. However, their population is declining nowadays due to noise pollution.
- B. It is one of the most common birds along with the other two species, the European starling, and the rock pigeon.
- C. Their constant presence outside our homes makes it easy to overlook them.
- D. House sparrows can be found in most places with and without houses (or other structures).

- Ans
- 1. DACB
  - 2. BDCA
  - 3. DABC
  - 4. DBCA

Q.4 Select the option that can be used as a one-word substitute for the given group of words.

A person who performs magic to entertain people

- Ans
- 1. Alchemist
  - 2. Angel
  - 3. Magician
  - 4. Palmist

Q.5 Select the most appropriate option to substitute the underlined segment in the given sentence.  
Transnational linkages, for example, sever the nation-state's integrity and corrupt state-society relations.

- Ans
- 1. cohesion and erode
  - 2. divergence and relativity
  - 3. severance and revolution
  - 4. controversy and diminution

Q.6 Select the most appropriate ANTONYM of the given word.  
Desolate

- Ans
- 1. Festive
  - 2. Allusive
  - 3. Frugal
  - 4. Melancholic

Q.7 Select the option that expresses the given sentence in passive voice.  
The cashier had finished the assigned task on time.

- Ans
- 1. The assigned task is finished by the cashier on time.
  - 2. The assigned task has been finished by the cashier on time.
  - 3. The assigned task had been finished by the cashier on time.
  - 4. The assigned task was finished by the cashier on time.

Q.8 Select the most appropriate option that has the same meaning as the italicised segment.  
His illness became *a blessing in disguise* when he married his nurse.

- Ans
- 1. an apparent misfortune that eventually has good results
  - 2. when someone finds it difficult to choose between two alternatives
  - 3. to present a counter-argument
  - 4. deal with a problem if and when it becomes necessary

Q.9 Select the most appropriate synonym of the given word.  
Garnish

- Ans
- 1. Dwindle
  - 2. Tarnish
  - 3. Blemish
  - 4. Decorate

Q.10 Select the most appropriate synonym of the given word.  
Determined

- Ans
- 1. hesitant
  - 2. loathe
  - 3. faltering
  - 4. resolute

**Q.11** Select the most appropriate synonym of the given word.  
Fallacy

- Ans**
- 1. Error
  - 2. Veracity
  - 3. Evidence
  - 4. Verify

**Q.12** Select the most appropriate ANTONYM of the given word to fill in the blank.  
Capricious  
Share market prices have remained \_\_\_\_\_ for weeks.

- Ans**
- 1. fickle
  - 2. stable
  - 3. mischievous
  - 4. volatile

**Q.13** Select the most appropriate order of the segments in the options that will fill in the blanks and make a coherent paragraph.  
Though Sheila loves watching horror movies, \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ she rented another romantic today.

- Ans**
- 1. she planned to try something different yesterday / so she rented the latest romantic / and to her surprise she enjoyed it very much / so much so that
  - 2. and to her surprise she enjoyed it very much /so much so that /so she rented the latest romantic /she planned to try something different yesterday
  - 3. so she rented the latest romantic / and to her surprise she enjoyed it very much / so much so that / she planned to try something different yesterday
  - 4. so much so that / and to her surprise she enjoyed it very much / she planned to try something different yesterday / so she rented the latest romantic

**Q.14** Parts of the following sentence have been given as options. Select the option that contains an error.  
The police told the agitators to back in, else they would lathi-charge.

- Ans**
- 1. lathi-charge
  - 2. else they would
  - 3. the agitators to back in
  - 4. The police told

**Q.15** Select the option that expresses the given sentence in active voice.  
Data is being collected by the researcher.

- Ans**
- 1. The researcher has collected data.
  - 2. The researcher is collecting data.
  - 3. The researcher has been collecting data.
  - 4. The researcher will be collecting data.

**Q.16** Select the most appropriate option to substitute the underlined segment in the given sentence.  
His house is smaller than you .

- Ans**
- 1. is smaller than yours
  - 2. is small as you
  - 3. is small than you
  - 4. is smaller than your

**Q.17** Parts of the following sentence have been given as options. Select the option that contains an error.  
We took dinner in a Chinese restaurant and were amazed to see the interior of a restaurant.

- Ans**
- 1. and were amazed to see
  - 2. the interior of a restaurant
  - 3. We took dinner
  - 4. in a Chinese restaurant

**Q.18** Select the INCORRECTLY spelt word in the given sentence.

Fundamentals of every subject need to be learnt on priority basis.

- Ans**
- 1. priority
  - 2. basis
  - 3. Fundamentals
  - 4. learnt

**Q.19** Out of the four sentences given, three have spelling errors. Identify the sentence that has no spelling error.

- Ans**
- 1. What advice did he give to young entrepreneurs?
  - 2. She tried to manoeuvre her trolley around people.
  - 3. The computer's software detected an anamoly caused by a virus.
  - 4. A clergyman read the litturgy from the prayer-book.

**Q.20** Select the option that can be used as a one-word substitute for the given phrase.

A person who is kept captive for fulfilment of demands of money or conditions

- Ans**
- 1. Hostage
  - 2. Hermit
  - 3. Heretic
  - 4. Introvert

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When Ojeya Cruz Banks moved to Ohio from New Zealand (1) \_\_\_\_\_ years ago, she was overwhelmed by the logistics of uprooting her life. But Cruz Banks, a Denison University professor and a single mom, who is also my neighbour and friend, was (2) \_\_\_\_\_ to find a house next to a public elementary school. She assumed that she would be able to walk to pick up her daughter, a needed convenience given that she didn't yet have a car. Unfortunately, when she went to register her daughter for kindergarten, she was met with an (3) \_\_\_\_\_ surprise: The only (4) \_\_\_\_\_ option was a half-day program that would bus students to a day-care centre on the outskirts of the town for the afternoon. The district did offer a limited number of full-day slots, but those had all been claimed in a lottery earlier that spring and came with a tuition cost. "I was like, 'Cost me? What? Public school costs money here?'" she told me.

Many parents across the United States, like Cruz Banks, may assume that free, full-day kindergarten is a (5) \_\_\_\_\_ part of the country's public education system. I was one of them, until my youngest had to enter our district's lottery several months ago. When he was assigned to the half-day program, I swung between alarm and frustration.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank no. 1.

- Ans**
- 1. several
  - 2. particular
  - 3. enormous
  - 4. immense



**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When Ojeya Cruz Banks moved to Ohio from New Zealand (1) \_\_\_\_\_ years ago, she was overwhelmed by the logistics of uprooting her life. But Cruz Banks, a Denison University professor and a single mom, who is also my neighbour and friend, was (2) \_\_\_\_\_ to find a house next to a public elementary school. She assumed that she would be able to walk to pick up her daughter, a needed convenience given that she didn't yet have a car. Unfortunately, when she went to register her daughter for kindergarten, she was met with an (3) \_\_\_\_\_ surprise: The only (4) \_\_\_\_\_ option was a half-day program that would bus students to a day-care centre on the outskirts of the town for the afternoon. The district did offer a limited number of full-day slots, but those had all been claimed in a lottery earlier that spring and came with a tuition cost. "I was like, 'Cost me? What? Public school costs money here?'" she told me.

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**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank no. 2.

- Ans**
- 1. distraught
  - 2. dispassionate
  - 3. relieved
  - 4. worried

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When Ojeya Cruz Banks moved to Ohio from New Zealand (1) \_\_\_\_\_ years ago, she was overwhelmed by the logistics of uprooting her life. But Cruz Banks, a Denison University professor and a single mom, who is also my neighbour and friend, was (2) \_\_\_\_\_ to find a house next to a public elementary school. She assumed that she would be able to walk to pick up her daughter, a needed convenience given that she didn't yet have a car. Unfortunately, when she went to register her daughter for kindergarten, she was met with an (3) \_\_\_\_\_ surprise: The only (4) \_\_\_\_\_ option was a half-day program that would bus students to a day-care centre on the outskirts of the town for the afternoon. The district did offer a limited number of full-day slots, but those had all been claimed in a lottery earlier that spring and came with a tuition cost. "I was like, 'Cost me? What? Public school costs money here?'" she told me.

Many parents across the United States, like Cruz Banks, may assume that free, full-day kindergarten is a (5) \_\_\_\_\_ part of the country's public education system. I was one of them, until my youngest had to enter our district's lottery several months ago. When he was assigned to the half-day program, I swung between alarm and frustration.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank no. 3.

- Ans**
- 1. agreeable
  - 2. unpleasant
  - 3. amusing
  - 4. enjoyable

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When Ojeya Cruz Banks moved to Ohio from New Zealand (1) \_\_\_\_\_ years ago, she was overwhelmed by the logistics of uprooting her life. But Cruz Banks, a Denison University professor and a single mom, who is also my neighbour and friend, was (2) \_\_\_\_\_ to find a house next to a public elementary school. She assumed that she would be able to walk to pick up her daughter, a needed convenience given that she didn't yet have a car. Unfortunately, when she went to register her daughter for kindergarten, she was met with an (3) \_\_\_\_\_ surprise: The only (4) \_\_\_\_\_ option was a half-day program that would bus students to a day-care centre on the outskirts of the town for the afternoon. The district did offer a limited number of full-day slots, but those had all been claimed in a lottery earlier that spring and came with a tuition cost. "I was like, 'Cost me? What? Public school costs money here?'" she told me.

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**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank no. 4.

- Ans**
- 1. futile
  - 2. available
  - 3. nonviable
  - 4. inaccessible

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When Ojeya Cruz Banks moved to Ohio from New Zealand (1) \_\_\_\_\_ years ago, she was overwhelmed by the logistics of uprooting her life. But Cruz Banks, a Denison University professor and a single mom, who is also my neighbour and friend, was (2) \_\_\_\_\_ to find a house next to a public elementary school. She assumed that she would be able to walk to pick up her daughter, a needed convenience given that she didn't yet have a car. Unfortunately, when she went to register her daughter for kindergarten, she was met with an (3) \_\_\_\_\_ surprise: The only (4) \_\_\_\_\_ option was a half-day program that would bus students to a day-care centre on the outskirts of the town for the afternoon. The district did offer a limited number of full-day slots, but those had all been claimed in a lottery earlier that spring and came with a tuition cost. "I was like, 'Cost me? What? Public school costs money here?'" she told me.

Many parents across the United States, like Cruz Banks, may assume that free, full-day kindergarten is a (5) \_\_\_\_\_ part of the country's public education system. I was one of them, until my youngest had to enter our district's lottery several months ago. When he was assigned to the half-day program, I swung between alarm and frustration.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank no. 5.

- Ans**
- 1. disapproved
  - 2. ceaseless
  - 3. inessential
  - 4. required

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	19/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Each vowel in the word 'ISOLATED' is changed to the following letter in the English alphabetical order and each consonant is changed to the preceding letter in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is the third from the left end and the second from the left end in the group of letters thus formed?

- Ans**
- 1. Four
  - 2. One
  - 3. Three
  - 4. Two

**Q.2** Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

\_ B \_ \_ A L \_ \_ L \_ \_

- Ans**
- 1. LALBBABA
  - 2. BBALLBAA
  - 3. LBAALLBA
  - 4. BLABBALL

**Q.3** In a certain code,

'it is raining' is coded as 'dy po ko',  
'is raining now' is coded as 'po jo ko' and  
'is now it' is coded as 'po jo dy'.

(All the codes are two-letter codes only.)

What is the code for 'raining'?

- Ans**
- 1. ko
  - 2. po
  - 3. jo
  - 4. dy

**Q.4** Six letters X, T, S, M, R and O are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to R.



- Ans**
- 1. S
  - 2. O
  - 3. T
  - 4. M

**Q.5** The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair. (NOTE: The relation should be found without breaking down the numbers into its constituent digits)

- Ans**
- 1. 784 : 961
  - 2. 1764 : 1849
  - 3. 1156 : 1225
  - 4. 1521 : 1600

**Q.6** Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)

New Zealand : Wellington

- Ans**
- 1. Egypt : Tunis
  - 2. South Korea : Suwon Si
  - 3. China : Hong Kong
  - 4. Ethiopia : Addis Ababa

**Q.7** In a certain code language, 'toys are gadgets' is coded as 'dj sq ty' and 'gadgets are machines' is coded as 'mp ty dj'. What is code for 'gadgets' in that language?

- Ans**
- 1. either 'ty' or 'mp'
  - 2. either 'ty' or 'dj'
  - 3. dj
  - 4. sq

**Q.8** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

Note :The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

- Ans**
- 1. LKM
  - 2. XYW
  - 3. TSU
  - 4. HGI

**Q.9** What will come in place of the question mark (?) in the following equation if '+' and 'x' are interchanged and '-' and '÷' are interchanged?

$$16 - 2 \times 42 + 13 \div 12 = ?$$

- Ans**
- 1. 560
  - 2. 542
  - 3. 950
  - 4. 762

**Q.10** Select the number from among the given options that can replace the question mark (?) in the following series. 625, 382, 301, 274, 265, ?

- Ans**
- 1. 258
  - 2. 248
  - 3. 262
  - 4. 260

Q.11 In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.

Statements:

All teachers are dancers.

All dancers are engineers.

Some engineers are beautiful.

Conclusions:

I. All teachers are beautiful.

II. Some dancers are beautiful.

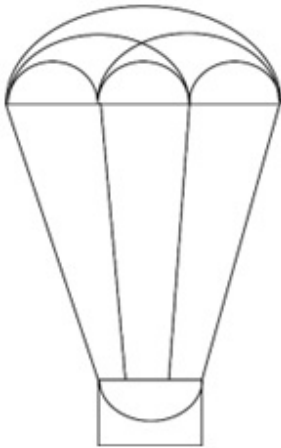
Ans  1. Both conclusions I and II follow.

2. Neither conclusion I nor II follows.

3. Only conclusion II follows.

4. Only conclusion I follows.

Q.12 How many semicircles are there in the given figure?



Ans  1. 6

2. 5

3. 8

4. 7

Q.13 In a certain code language,  
'A ! B' means 'A is the father of B',  
'A & B' means 'A is the brother of B',  
'A \* B' means 'A is the wife of B' and  
'A # B' means 'A is the daughter of B'.  
Which of the following means that S is the husband's brother's wife of M?

Ans  1. S & F \* J ! ! # M

2. S \* F & J ! ! # M

3. S & F ! J \* ! # M

4. S & F # J ! ! \* M

Q.14 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

13 : 55

23 : 105

Ans  1. 11 : 51

2. 29 : 113

3. 7 : 26

4. 31 : 145

Q.15 Select the figure from among the given option that can replace the question mark (?) in the following series.

	6		C		1		2				
2	=	1	M	6	P	P	M	6	C	1	=
P	C	M	1	=	2	=	2	C	6	M	P
											?

Ans

✗ 1.

			P
=	C	1	
2	6	M	

✓ 2.

			6
=	C	1	
M	P	2	

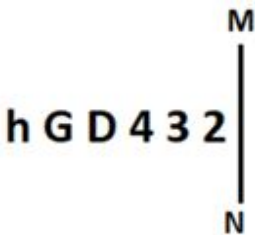
✗ 3.

			C
1	=	2	
P	6	M	

✗ 4.

			6
M	=	1	
P	C	2	

Q.16 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans

✗ 1.

hGD432

✓ 2.

hGD432

✗ 3.

hGD432

✗ 4.

hGD432

Q.17 In a certain code language, 'MAIN' is written as 'OHBL' and 'MAIL' is written as 'MHBL'. How will 'MANY' be written in that language?

Ans

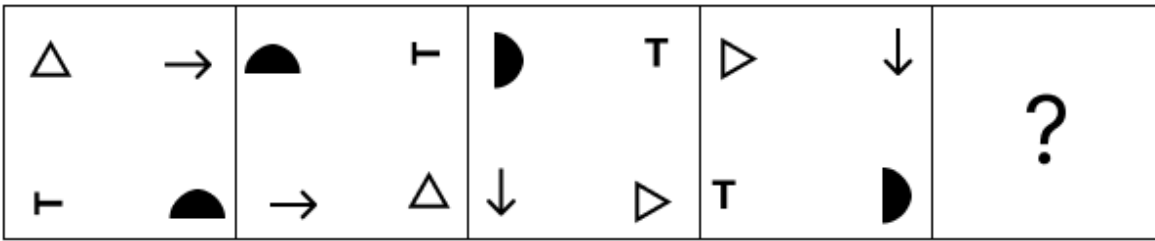
✗ 1. ZLMB

✓ 2. ZMBL

✗ 3. ZBLM

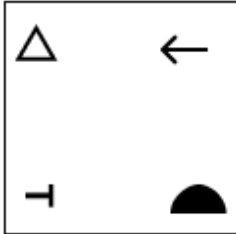
✗ 4. ZMLB

Q.18 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?

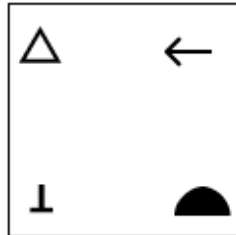


Ans

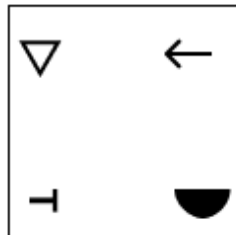
1.



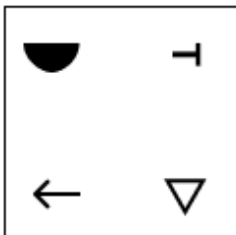
2.



3.



4.



Q.19 97 is related to 49 following a certain logic. Following the same logic, 115 is related to 58. To which of the following is 133 related to, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

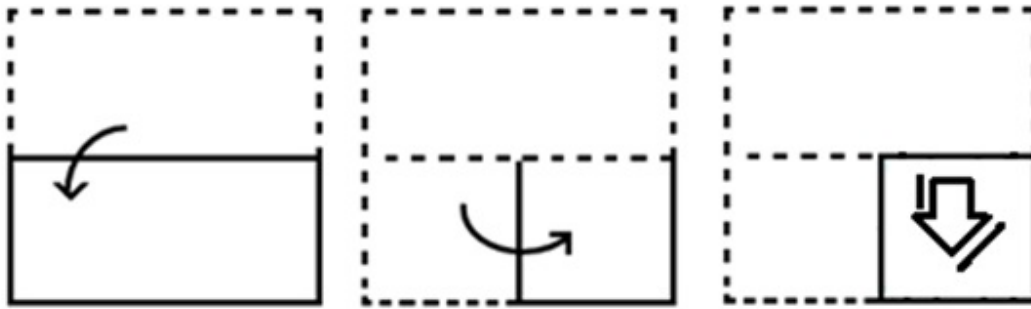
Ans  1. 82

2. 64

3. 67

4. 89

Q.20 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans

- ✓ 1.
- ✗ 2.
- ✗ 3.
- ✗ 4.

Q.21 'NQR P' is related to 'RUV T' in a certain way based on the English alphabetical order. In the same way, 'DGL F' is related to 'HKP J'. To which of the following is 'KCUM' related, following the same logic?

- ✓ 1. OGYQ
- ✗ 2. PGZR
- ✗ 3. OHZQ
- ✗ 4. PHYR



Q.22 Select the correct combination of mathematical signs to sequentially place from left to right in the blanks below to balance the given equation.

$$8 \_ 27 \_ 9 \_ 6 \_ 5 = 0$$

- Ans
- 1.  $\div, +, -, +$
  - 2.  $+, \div, -, -$
  - 3.  $-, \div, +, +$
  - 4.  $-, +, \div, +$

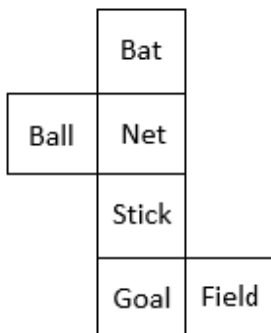
Q.23 13 is related to 119 following a certain logic. Following the same logic, 9 is related to 31. To which of the following is 8 related, following the same logic?  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 14
  - 2. 10
  - 3. 27
  - 4. 24

Q.24 Which of the following terms will replace the question mark (?) in the given series?  
ABNI, DAQH, ?, JYWF

- Ans
- 1. GZTG
  - 2. TGZG
  - 3. CAYG
  - 4. GTZG

Q.25 A cube is constructed by folding the given sheet along the lines shown. In the cube so formed, what would be the word on the opposite side of 'Ball'?



- Ans
- 1. Field
  - 2. Goal
  - 3. Stick
  - 4. Bat

Section : General Awareness

Q.1 \_\_\_\_\_ is the provision of small credit to those who would have no other access to financial services.

- Ans
- 1. Microloan
  - 2. Microfinance
  - 3. Homeloan
  - 4. Pradhan Mantri Awas Yojana

Q.2 The variation between a high air temperature and a low temperature that occurs during the same day is called \_\_\_\_\_ temperature.

- Ans
- 1. diurnal
  - 2. annual
  - 3. wet bulb
  - 4. durian

**Q.3** Agricultural shot is a term used in which of the following sports?

- Ans**
- 1. Lawn Tennis
  - 2. Cricket
  - 3. Football
  - 4. Table Tennis

**Q.4** In peninsular India, which of the following kingdoms was the local power that ruled over northern Maharashtra and Vidarbha?

- Ans**
- 1. Vakatakas
  - 2. Maukharis
  - 3. Maitrakas
  - 4. Chalukyas

**Q.5** Which of the following is the best definition of ecological efficiency?

- Ans**
- 1. The amount of energy utilised at different trophic levels in a food chain
  - 2. The amount of energy stored at different trophic levels in a food chain
  - 3. The ratio between the mass and the energy flow at different trophic levels in a food chain
  - 4. The ratio between energy flows at different points in a food chain

**Q.6** Articles 245 to 255 in Part XI of the Indian Constitution deal with the \_\_\_\_\_.

- Ans**
- 1. emergency provisions
  - 2. financial relations between the Centre and the states
  - 3. legislative relations between the Centre and the states
  - 4. tribunals

**Q.7** In which group of states does the Luni River flow?

- Ans**
- 1. Bihar and West Bengal
  - 2. Andhra Pradesh and Telangana
  - 3. Rajasthan and Gujarat
  - 4. Maharashtra and Karnataka

**Q.8** Which state Chief Minister launched the 'Kaushalya Matritva Yojana' in 2022, which provides financial assistance of ₹5,000 to women giving birth to a second girl child for safe motherhood?

- Ans**
- 1. Gujarat
  - 2. Uttar Pradesh
  - 3. Rajasthan
  - 4. Chhattisgarh

**Q.9** For a chemical reaction with rise in temperature by  $10^\circ$ , the rate constant becomes nearly \_\_\_\_\_.

- Ans**
- 1. Double
  - 2. Triple
  - 3. one-fourth
  - 4. half

**Q.10** In which of the following years was VD Savarkar sent to Andaman Jail by the British?

- Ans**
- 1. 1910
  - 2. 1922
  - 3. 1923
  - 4. 1911

**Q.11** What is the disinvestment target of the Finance Ministry for the year 2023-24?

- Ans**
- 1. ₹54,000 crore
  - 2. ₹53,000 crore
  - 3. ₹50,000 crore
  - 4. ₹51,000 crore

**Q.12** Pandwani singer Usha Barle was conferred with which of the following awards by the Government of India in 2023?

- Ans**
- 1. Padma Vibhushan
  - 2. Bharat Ratna
  - 3. Padma Bhushan
  - 4. Padma Shri

**Q.13** Which of the following is an example of prokaryotic cells?

- Ans**
- 1. Plasmodium
  - 2. Leishmania
  - 3. Yeast
  - 4. Bacteria

**Q.14** As per Mendeleev's prediction, atomic mass of eka-aluminium was:

- Ans**
- 1. 100
  - 2. 44
  - 3. 72
  - 4. 68

**Q.15** Which Indian musician and sitar player is the founder of the National Orchestra of India ?

- Ans**
- 1. Ravi Shankar
  - 2. Shahid Parvez Khan
  - 3. Kishan Maharaj
  - 4. Ayyagari Syamasundaram

**Q.16** Which of the following commissions/committees identified the existence of legal provisions for implementation of some of the Fundamental Duties?

- Ans**
- 1. Vasant Rao Naik Committee
  - 2. Sarkaria Commission
  - 3. Rajamannar Commission
  - 4. Justice Verma Committee

**Q.17** Where was the first official summit of the Non-Aligned movement held?

- Ans**
- 1. India
  - 2. Yugoslavia
  - 3. New York
  - 4. Egypt

**Q.18** Gandharva Mahavidyalaya, which was founded by Pandit Vinaya Chandra Maudgalya, is located at \_\_\_\_\_.

- Ans**
- 1. New Delhi
  - 2. Pune
  - 3. Kolkata
  - 4. Mumbai

**Q.19** Which of the following documents provides a framework, rules and regulations for setting up public and private industries in India?

- Ans**
- 1. Industrial policy
  - 2. Annual report of the trade union
  - 3. Company's financial statement
  - 4. Union Budget

**Q.20** In chess, which of the following may only move forward to the unoccupied square immediately in front of it?

- Ans**
- 1. The Bishop
  - 2. The Queen
  - 3. The Pawn
  - 4. The Rook

**Q.21** Mulayam Singh Yadav, who passed away in October 2022, served as the Chief Minister of which state?

- Ans**
- 1. Madhya Pradesh
  - 2. Gujarat
  - 3. Uttar Pradesh
  - 4. Bihar

**Q.22** Which is the joint digital skills initiative for employability through digital skills by National Career Service and Microsoft India?

- Ans**
- 1. Digisaksham
  - 2. Vidyadaan
  - 3. Shiksha Vani
  - 4. Swayam

**Q.23** In which of the following states is Me-dam-me-phi festival primarily celebrated?

- Ans**
- 1. Bihar
  - 2. Assam
  - 3. Nagaland
  - 4. Odisha

**Q.24** Which of the following is an example of joint sector industry?

- Ans**
- 1. Bharat Heavy Electricals Limited
  - 2. Oil India Limited
  - 3. Tata Iron and Steel Company
  - 4. Steel Authority of India Limited

**Q.25** In 10<sup>th</sup> century India, Queen Didda became the ruler of which of the following regions of north India?

- Ans**
- 1. Kannauj
  - 2. Malwa
  - 3. Delhi
  - 4. Kashmir

Q.1 The maximum value of  $(2 \sin \theta + 3 \cos \theta)$  is:

- Ans
- 1.  $\sqrt{17}$
  - 2.  $\sqrt{11}$
  - 3. 9
  - 4.  $\sqrt{13}$

Q.2 The radius of the circle is 10 cm and the perpendicular distance from the chord to the centre is 6 cm. The length of the chord is:

- Ans
- 1. 16 cm
  - 2. 12 cm
  - 3. 14 cm
  - 4. 18 cm

Q.3 Simplify the following expression.  
 $25 \div 5 + 3 \text{ of } 2 - 4 + 6 \text{ of } 3 \div 2 - 8 + 4$

- Ans
- 1. 16
  - 2. 4
  - 3. 8
  - 4. 12

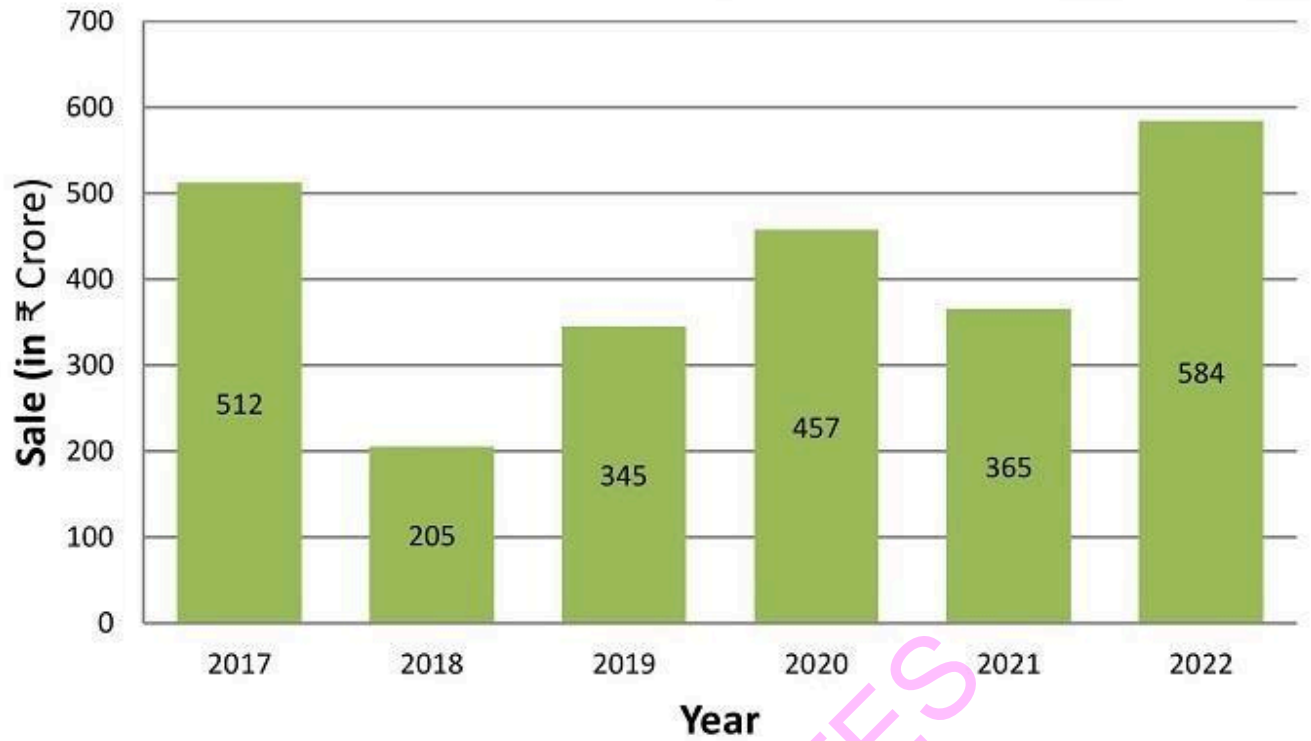
Q.4 If  $(x + \frac{1}{x}) = 7, x > 0$ . The positive value of  $(x - \frac{1}{x})$  is:

- Ans
- 1.  $5\sqrt{4}$
  - 2.  $5\sqrt{5}$
  - 3.  $3\sqrt{5}$
  - 4.  $4\sqrt{5}$

Q.5 A shopkeeper sells rice at the rate of ₹44 per kg whose cost price is ₹40 per kg. Not satisfied with this, he tries to increase his profit by removing 200 grams of rice from each packet. What is the shopkeeper's overall gain percentage?

- Ans
- 1. 35%
  - 2. 37.5%
  - 3. 37%
  - 4. 35.5%

Q.6 The following bar graph shows the sales of a company (in ₹ crore) in different years. Study the graph and answer the question.



The mean of the highest and lowest sales (in ₹ crore) is:

- Ans
- 1. 326.7
  - 2. 394.5
  - 3. 484.2
  - 4. 412.3

Q.7 Three years ago, the age of a person was six times the age of his younger brother. Eight years later, the age of the person will be three years less than twice the age of his younger brother. Find the present ages of the person and his younger brother.

- Ans
- 1. 15 years and 5 years
  - 2. 5 years and 15 years
  - 3. 12 years and 4 years
  - 4. 4 years and 12 years

Q.8 An article marked for ₹275 is sold at 5% discount. The seller still gains 4.5%. What did he pay for it?

- Ans
- 1. ₹250
  - 2. ₹125
  - 3. ₹200
  - 4. ₹225

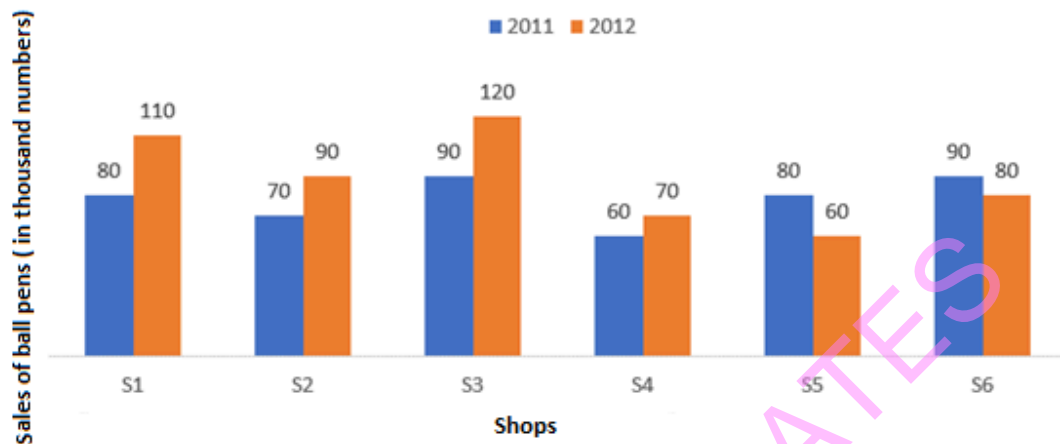
Q.9 PQ and RS are common tangents to two circles intersecting at A and B. A and B, when produced on both the sides, meet the tangents PQ and RS at X and Y, respectively. If AB = 3 cm and XY = 5 cm, then PQ is \_\_\_\_\_.

- Ans
- 1. 5 cm
  - 2. 3 cm
  - 3. 6 cm
  - 4. 4 cm

Q.10 At a school building, there is an overhead tank. To fill this tank 50 buckets of water are required. Assume that the capacity of the bucket is reduced to two-fifth of the present. How many buckets of water are required to fill the same tank?

- Ans
- 1. 62.5
  - 2. 20
  - 3. 125
  - 4. 60

Q.11 The bar graph given below shows the sales of ball pens (in thousand numbers) from six shops S1, S2, S3, S4, S5, and S6, during two consecutive years, 2011 and 2012.



What's is the ratio of the total sales of shop S2 for both years to the total sales of Shop S5 for both years?

- Ans
- 1. 8 : 7
  - 2. 7 : 5
  - 3. 5 : 8
  - 4. 3 : 7

Q.12 A and B can do a work in 12 days and 16 days, respectively. If they work together for 6 days, then the fraction of the work left is \_\_\_\_\_.

- Ans
- 1.  $\frac{5}{7}$
  - 2.  $\frac{7}{8}$
  - 3.  $\frac{1}{8}$
  - 4.  $\frac{1}{7}$

Q.13 A quadrilateral PQRS is inscribed in a circle of centre O, such that PQ is a diameter and  $\angle PSR = 120^\circ$ . Find the value of  $\angle QPR$ .

- Ans
- 1.  $30^\circ$
  - 2.  $60^\circ$
  - 3.  $40^\circ$
  - 4.  $50^\circ$

Q.14 The base radius of a circular cylinder is 10.5 cm. If the area of its curved surface is  $792 \text{ cm}^2$ , then what is the volume of the cylinder?

- Ans
- 1.  $4185 \text{ cm}^3$
  - 2.  $4518 \text{ cm}^3$
  - 3.  $4152 \text{ cm}^3$
  - 4.  $4158 \text{ cm}^3$

Q.15 The value of the expression  $\frac{1 - \sin(2t)}{1 + \sin(2t)} \times \frac{\cos(t) + \sin(t)}{\cos(t) - \sin(t)}$  is

- Ans
- 1.  $\frac{1 - 2\tan(t)}{1 + 2\tan(t)}$
  - 2.  $\frac{1 - \tan(t)}{1 + \tan(t)}$
  - 3.  $\frac{1 + 2\tan(t)}{1 - 2\tan(t)}$
  - 4.  $\frac{1 + \tan(t)}{1 - \tan(t)}$

Q.16 The sum of the ages of 6 children born at the interval of two years each is 90 years. What is the age (in years) of the eldest child?

- Ans
- 1. 14
  - 2. 20
  - 3. 16
  - 4. 10

Q.17 A sum of ₹1,456, when invested for ten years, amounts to ₹2,366 on maturity. Find the rate of simple interest per annum that was to be paid on the sum invested.

- Ans
- 1. 5.75%
  - 2. 6.5%
  - 3. 6.25%
  - 4. 6.15%

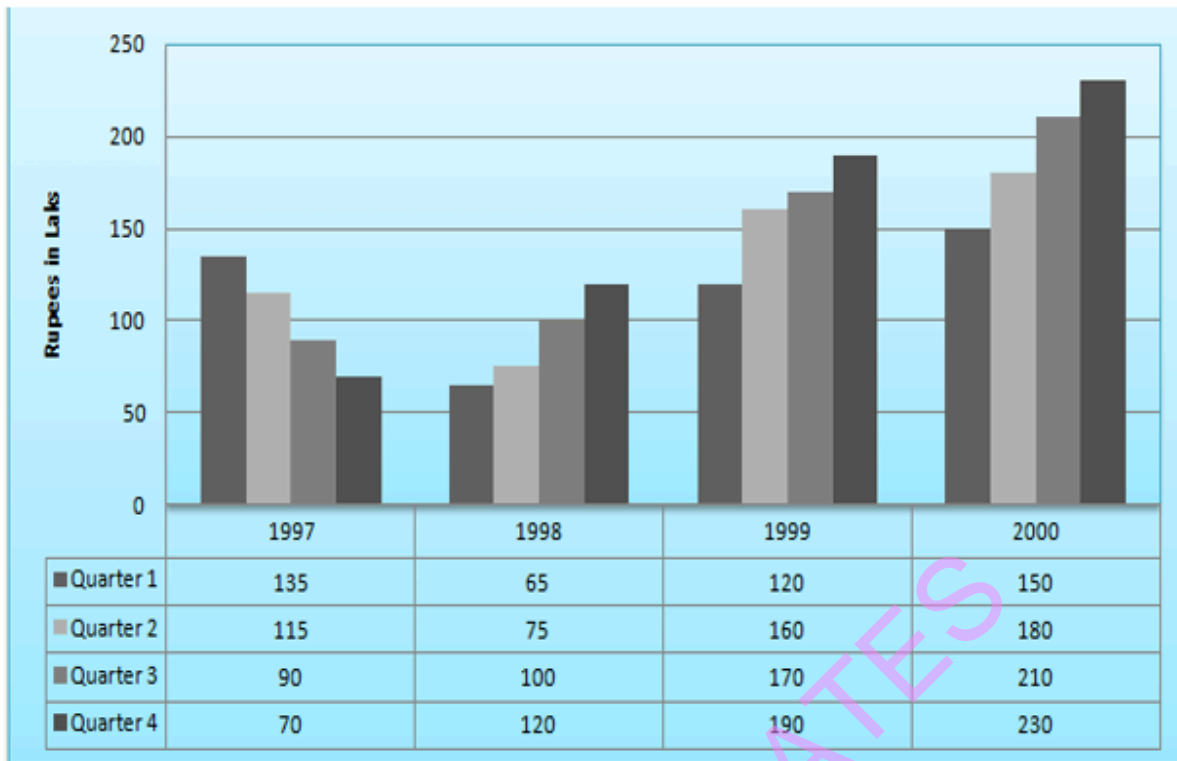
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Q.18

Study the given bar graph and answer the question that follows.

The following bar graph shows the quarterly profit (in lakhs) of a departmental store from 1997 to 2000.



What was the percentage increase in annual profit of the departmental store from 1997 to 2000?

Ans

1.  $85\frac{33}{41}\%$

2.  $84\frac{33}{41}\%$

3.  $87\frac{33}{41}\%$

4.  $83\frac{33}{41}\%$

Q.19

Simplify  $\left[1 - \sin^2 32^\circ + \frac{1}{1 + \tan^2 58^\circ}\right]$ .

Ans

1.  $\frac{1}{2}$

2.  $\sin 32^\circ$

3. 1

4.  $\sqrt{3}$

Q.20 The average score of a batsman in twenty matches is 15 and in twenty-five other matches is 24. Find the average score in all the forty-five matches.

Ans

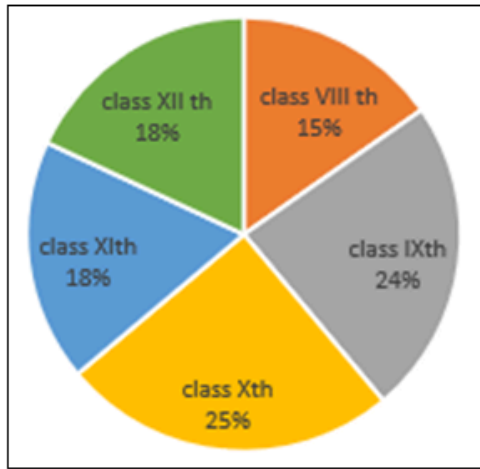
1. 21

2. 20

3. 19.5

4. 22

Q.21 The given pie chart shows the number of students admitted in to different classes of a school in the academic year 2022-23.



How many students were more in Class 10 than in Class 12 if 600 students were admitted in to Class 8?

- Ans
- 1. 280
  - 2. 298
  - 3. 240
  - 4. 295

Q.22 A thief is spotted by a policeman from a distance of 200 metres. When the policeman starts the chase, the thief also starts running. If the speed of the thief is 9 km/h and that of the policeman 10 km/h, how far will the thief have to run before he is overtaken?

- Ans
- 1. 1.2 km
  - 2. 1.4 km
  - 3. 1.8 km
  - 4. 1.6 km

Q.23 From the given numbers A, B, C and D, which number is NOT divisible by 11?

A = 712712  
B = 177210  
C = 64614  
D = 756148

- Ans
- 1. C
  - 2. D
  - 3. B
  - 4. A

Q.24 The price of an item is increased twice successively. The final price is ₹2,295 and initial price was ₹1,000. The percentage increment the second time was twice the percentage increment the first time. By what percentage was the price increased the second time?

- Ans
- 1. 35%
  - 2. 65%
  - 3. 70%
  - 4. 25%

Q.25  $\triangle ABC$  and  $\triangle DEF$  are two triangles such that  $\triangle ABC \cong \triangle FDE$ . If  $AB=17$  cm,  $\angle B=52^\circ$  and  $\angle A=95^\circ$ , then which of the following options is true?

- Ans
- 1.  $DE=17$  cm,  $\angle F=33^\circ$
  - 2.  $DF=17$  cm,  $\angle E=33^\circ$
  - 3.  $DE=17$  cm,  $\angle E=33^\circ$
  - 4.  $DF=17$  cm,  $\angle D=33^\circ$

**Q.1** The following sentence has been divided into three segments. One of them may contain an error. Select the option that has the segment with the error. If you don't find any error, select 'No error' as your answer.  
Mr. Ali's shop / is further to / the hospital.

- Ans**
- 1. is further to
  - 2. No error
  - 3. Mr. Ali's shop
  - 4. the hospital.

**Q.2** Select the most appropriate synonym of the underlined word in the given sentence.  
She is a very creative artist and one can see that in her paintings.

- Ans**
- 1. Innovative
  - 2. Likeable
  - 3. Pedantic
  - 4. Good

**Q.3** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- (A) a lot
- (B) my daily routine
- (C) i have missed
- (D) since my retirement
- (E) at the workplace

- Ans**
- 1. CBEAD
  - 2. BACED
  - 3. BEADC
  - 4. BADEC

**Q.4** Identify the most appropriate ANTONYM of the underlined word in the following sentence.  
I love the stunning view of the mountain.

- Ans**
- 1. Toxic
  - 2. Superfluous
  - 3. Smashing
  - 4. Mundane

**Q.5** Select the option that expresses the following sentence in active voice.  
The concert tickets were bought by my friend

- Ans**
- 1. My friend has bought the concert tickets.
  - 2. My friend bought the concert tickets.
  - 3. My friend buys the concert tickets.
  - 4. My friend is buying the concert tickets.

**Q.6** Identify from the given options the word which is similar in meaning to the following word.  
Morbid

- Ans**
- 1. Blithe
  - 2. Gloomy
  - 3. Grand
  - 4. Bet

**Q.7** Select the most appropriate meaning of the underlined idiom/phrase.

I had heard of henpecked husbands and now, I felt that I saw one.

- Ans**
- 1. Controlling husband
  - 2. Bossy husbands
  - 3. Oppressed husband
  - 4. Dominating husbands

**Q.8** The following sentence has been split into four segments. Identify the segment that contains a spelling error.  
Big Data has inandated / the education industry. / It has transformed it / by leaps and bounds.

- Ans**
- 1. It has transformed it
  - 2. by leaps and bounds
  - 3. the education industry
  - 4. Big Data has inandated

**Q.9** Select the most appropriate ANTONYM of the given word.  
Hinder

- Ans**
- 1. Praise
  - 2. Facilitate
  - 3. Joy
  - 4. Block

**Q.10** Select the most appropriate ANTONYM of the given word.  
Inevitable

- Ans**
- 1. Inexorable
  - 2. Clear
  - 3. Avoidable
  - 4. Confident

**Q.11** Select the option that can be used as a one-word substitute for the given group of words.

The statistical study of human populations.

- Ans**
- 1. Photography
  - 2. Palaeography
  - 3. Astronomy
  - 4. Demography

**Q.12** Parts of the following sentence have been given as options. Select the option that contains an error.  
It rain a lot in this part of the country.

- Ans**
- 1. of the country
  - 2. It rain
  - 3. a lot
  - 4. in this part

**Q.13** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. all the plants and animals of today
- B. it is written that Brahma is the God of creation
- C. and it is He who has made
- D. in the book of Hindu mythology

- Ans**
- 1. DACB
  - 2. DBCA
  - 3. DCBA
  - 4. CABD

**Q.14** Select the correctly spelled sentence.

- Ans**
- 1. The athlete's achievements are impressive.
  - 2. The athlete's acheivements are impressive.
  - 3. The athlete's achievements are impressive.
  - 4. The athletees achievements are impressive.

**Q.15** Select the option that expresses the given sentence in passive voice.  
Inayat did not greet her.

- Ans**
- 1. She was not going to be greeted by Inayat.
  - 2. She was not at all greeted by Inayat.
  - 3. She was not greeted by Inayat.
  - 4. She was not being greeted by Inayat.

**Q.16** Select the most appropriate option that can substitute the underlined segment in the given sentence.  
She was foolish enough to think that she be completely safe now.

- Ans**
- 1. has being completely safe
  - 2. have been completely safe
  - 3. is completely safe
  - 4. were completely safe

**Q.17** Select the option that can be used as a one-word substitute for the underlined group of words.  
In industries, it is very common to observe that people show undue favour to one's own relative during the hiring process.

- Ans**
- 1. nepotism
  - 2. racism
  - 3. liberalism
  - 4. communism

**Q.18** Select the most appropriate idiom that can substitute the underlined segment in the given sentence.  
Roshan, it's time for you to give your speech to the whole school, wishing you luck to do well.

- Ans**
- 1. down in the dumps
  - 2. break a leg
  - 3. high five
  - 4. hands down

**Q.19** Select the most appropriate synonym of the underlined word.

It takes time to adapt to a new environment.

- Ans**
- 1. Apply
  - 2. Adjust
  - 3. Understand
  - 4. Control

**Q.20** Select the option that can be used as a one-word substitute for the given group of words.

One who tends to look at the dark side of things

- Ans**
- 1. Dynamist
  - 2. Polemist
  - 3. Optimist
  - 4. Pessimist

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Recently, the (1)\_\_\_\_\_ of heart-attacks in young Indians (2)\_\_\_\_\_ increased tremendously. Doctors are surprised to note that young men and women with seemingly healthy lifestyle are suffering deadly heart attacks. (3)\_\_\_\_\_ diet and exercise play a (4)\_\_\_\_\_ role in a person's overall wellbeing, mental health is also a valuable factor. The (5)\_\_\_\_\_ urban lifestyle is causing anxiety and depression in young Indians which may be a major factor behind the increased numbers.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. amount
  - 2. number
  - 3. percent
  - 4. height

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Recently, the (1)\_\_\_\_\_ of heart-attacks in young Indians (2)\_\_\_\_\_ increased tremendously. Doctors are surprised to note that young men and women with seemingly healthy lifestyle are suffering deadly heart attacks. (3)\_\_\_\_\_ diet and exercise play a (4)\_\_\_\_\_ role in a person's overall wellbeing, mental health is also a valuable factor. The (5)\_\_\_\_\_ urban lifestyle is causing anxiety and depression in young Indians which may be a major factor behind the increased numbers.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. have been
  - 2. had
  - 3. has
  - 4. have

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Recently, the (1)\_\_\_\_\_ of heart-attacks in young Indians (2)\_\_\_\_\_ increased tremendously. Doctors are surprised to note that young men and women with seemingly healthy lifestyle are suffering deadly heart attacks. (3)\_\_\_\_\_ diet and exercise play a (4)\_\_\_\_\_ role in a person's overall wellbeing, mental health is also a valuable factor. The (5)\_\_\_\_\_ urban lifestyle is causing anxiety and depression in young Indians which may be a major factor behind the increased numbers.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. Since
  - 2. Although
  - 3. In spite of
  - 4. However

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Recently, the (1)\_\_\_\_\_ of heart-attacks in young Indians (2)\_\_\_\_\_ increased tremendously. Doctors are surprised to note that young men and women with seemingly healthy lifestyle are suffering deadly heart attacks. (3)\_\_\_\_\_ diet and exercise play a (4)\_\_\_\_\_ role in a person's overall wellbeing, mental health is also a valuable factor. The (5)\_\_\_\_\_ urban lifestyle is causing anxiety and depression in young Indians which may be a major factor behind the increased numbers.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. historic
  - 2. epic
  - 3. monumental
  - 4. increased

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Recently, the (1)\_\_\_\_\_ of heart-attacks in young Indians (2)\_\_\_\_\_ increased tremendously. Doctors are surprised to note that young men and women with seemingly healthy lifestyle are suffering deadly heart attacks. (3)\_\_\_\_\_ diet and exercise play a (4)\_\_\_\_\_ role in a person's overall wellbeing, mental health is also a valuable factor. The (5)\_\_\_\_\_ urban lifestyle is causing anxiety and depression in young Indians which may be a major factor behind the increased numbers.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. fast-paced
  - 2. cosmic
  - 3. rapidly
  - 4. wilderness

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## Combined Graduate Level Examination 2024 Tier I

Exam Date	19/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster...11

- Ans
- 1. MOP
  - 2. NPR
  - 3. HJL
  - 4. TVX

**Q.2** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$69 + 2485 \times 5 - 912 \div 2 = ?$$

- Ans
- 1. 1396
  - 2. 1639
  - 3. 1963
  - 4. 1936

**Q.3** Select the option in which the numbers share the same relationship as that shared by the given pair of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

11 : 62  
13 : 64

- Ans
- 1. 14 : 37
  - 2. 12 : 92
  - 3. 16 : 67
  - 4. 9 : 59

**Q.4** In a certain code language,  
X + Y means 'X is the sister of Y',  
X - Y means 'X is the wife of Y',  
X × Y means 'X is the mother of Y',  
X ÷ Y means 'X is the father of Y'.  
Based on the above, how is H related to L if 'H × I - J ÷ K + L'?

- Ans
- 1. Father's mother
  - 2. Father's sister
  - 3. Mother
  - 4. Mother's mother



**Q.5** In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.

**Statements:**

Some shirts are pants.

All pants are jackets.

All jackets are trousers.

**Conclusions:**

I. Some trousers are shirts.

II. All jackets are shirts.

- Ans**
- 1. Neither conclusion I nor II follows.
  - 2. Both conclusions I and II follow.
  - 3. Only conclusion II follows.
  - 4. Only conclusion I follows.

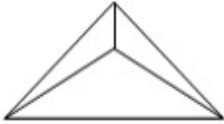
**Q.6** Which of the following terms will replace the question mark (?) in the given series?  
HDLB, LBPZ, PZTX, ?, XVBT

- Ans**
- 1. TVWC
  - 2. TXXV
  - 3. TWXC
  - 4. TWWV

**Q.7** Select the number from the given options to complete the series.  
58, 70, 83, 97, \_\_\_\_

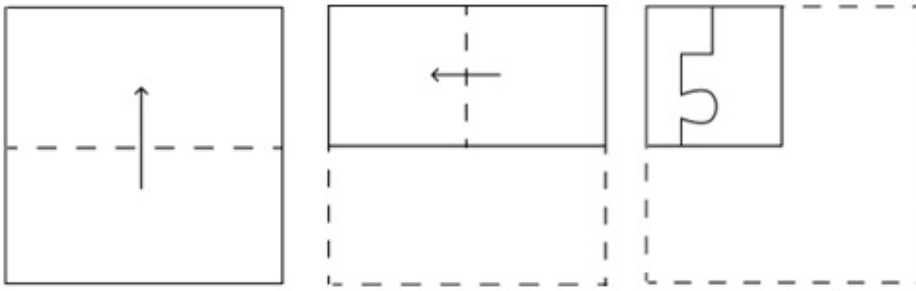
- Ans**
- 1. 111
  - 2. 113
  - 3. 112
  - 4. 114

**Q.8** How many triangles are there in the given figure?



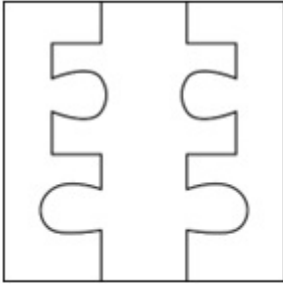
- Ans**
- 1. 2
  - 2. 3
  - 3. 4
  - 4. 5

Q.9 A paper is folded and cut as shown below. How will it appear when unfolded?

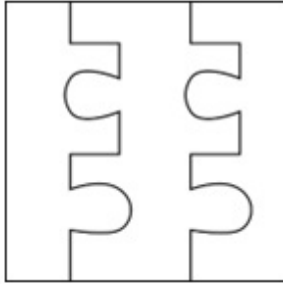


Ans

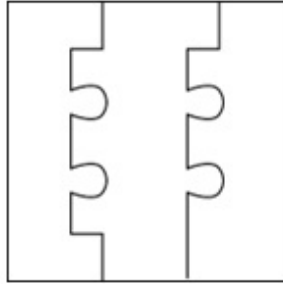
✗ 1.



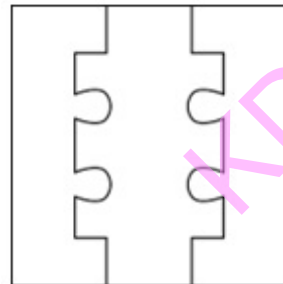
✗ 2.



✗ 3.



✓ 4.



KID JOB UPDATES

Q.10 Which figure should replace the question mark (?) if the following series were to be continued?

H	V	V	C	H	V	V	O					
S	O	6	6	S	O	↑	R	6	6	↑	R	?
↑		C	H	↑	C		O	H			C	

Ans

✓ 1.

H	V
C	6
O	R

✗ 2.

H	V
R	6
C	O

✗ 3.

C	H
R	6
O	V

✗ 4.

H	C
V	O
6	R

Q.11 Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

I \_ \_ I \_ \_ I \_ \_ J \_ \_

- Ans
- ✗ 1. I J I I J J I
  - ✗ 2. J I I I J J I
  - ✓ 3. J I J I J I I
  - ✗ 4. I I J J J I J

Q.12 Select the triad in which the numbers are related to each other in the same way as the numbers in the following triads.

4-5-41

2-3-13

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

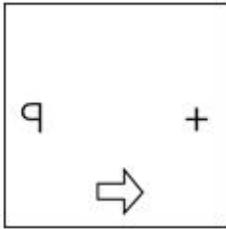
- Ans
- ✗ 1. 10-11-211
  - ✗ 2. 7-8-110
  - ✓ 3. 5-6-61
  - ✗ 4. 12-13-213

Q.13 Identify the figure from among the given options which when put in place of the question mark (?) will logically complete the series.

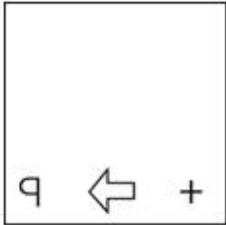
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Ans

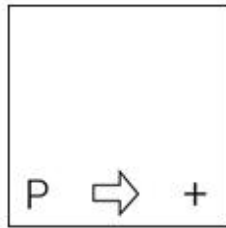
X 1.



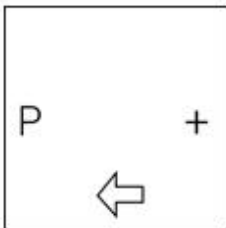
X 2.



✓ 3.



X 4.



Q.14 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans

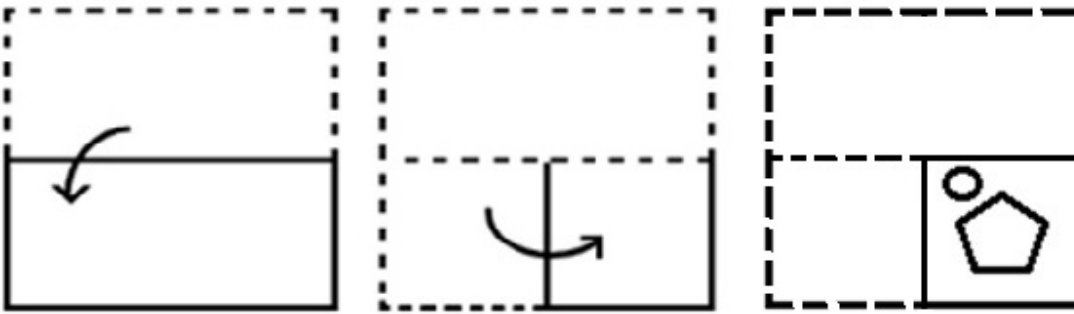
X 1.  $56 - 31 = 205$

X 2.  $88 - 23 = 245$

✓ 3.  $22 - 13 = 85$

X 4.  $18 - 12 = 72$

Q.15 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans

- ✓ 1.
- ✗ 2.
- ✗ 3.
- ✗ 4.

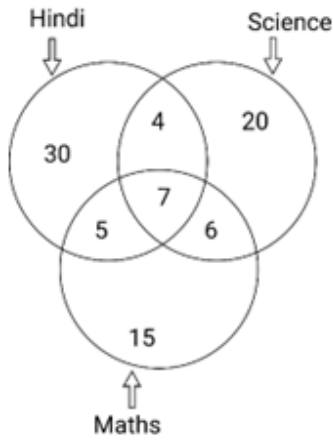
Q.16 Select the triad in which the numbers are related in the same way as are the numbers of the given triads.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(11, 1, 10)

(13, 7, 90)

- Ans
- ✗ 1. (3, 6, 23)
- ✗ 2. (1, 2, 15)
- ✗ 3. (2, 6, 28)
- ✓ 4. (4, 5, 19)

Q.17 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of students who like particular subjects.



How many students like Hindi and Science both, but NOT Maths?

- Ans
- 1. 12
  - 2. 11
  - 3. 4
  - 4. 10

Q.18 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

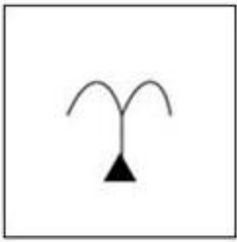
Larva : Insect

- Ans
- 1. Dog : Animal
  - 2. Fox : Vixen
  - 3. Fawn : Deer
  - 4. Bat : Chick

Q.19 In a certain code language, 'PANTHER' is written as '0146283' and 'ANOTHER' is written as '2864109'. How will 'O' be written in that language?

- Ans
- 1. 0
  - 2. 8
  - 3. 3
  - 4. 9

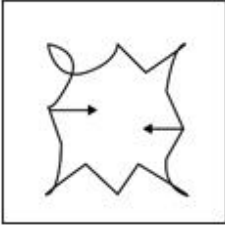
Q.20 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



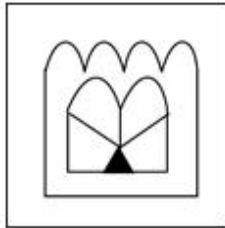
(X)

Ans

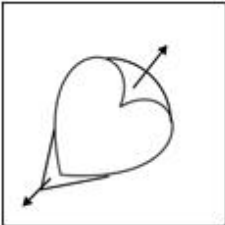
✗ 1.



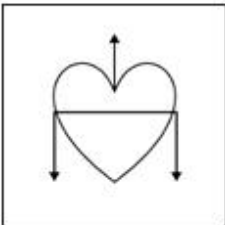
✓ 2.



✗ 3.



✗ 4.



Q.21 In a certain code language, 'CYCLE' is coded as '242241522' and 'FINAL' is coded as '2118132615'. How will 'MUSIC' be coded in that language?

- Ans
- ✗ 1. 146192184
  - ✓ 2. 14681824
  - ✗ 3. 146191824
  - ✗ 4. 1421191824

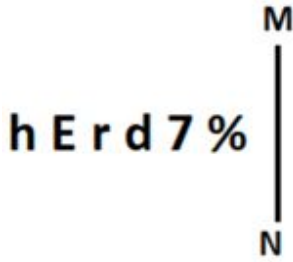
Q.22 'MPQO' is related to 'KNSQ' in a certain way based on the English alphabetical order. In the same way, 'DGHF' is related to 'BEJH'. To which of the following is 'EINW' related, following the same logic?

- Ans
- ✓ 1. CGPY
  - ✗ 2. BGPX
  - ✗ 3. CHQY
  - ✗ 4. BHQX

Q.23 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $49 \times 7 - 6 \div 8 + 13 =$

- Ans
- 1. 32
  - 2. 43
  - 3. 42
  - 4. 37

Q.24 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. % 7 b r E h
  - 2. % 7 b r E h
  - 3. % 7 P r E h
  - 4. % 7 b r E h

Q.25 The position of how many letters will remain unchanged if each of the letters in the word 'DRAFTING' is arranged in the English alphabetical order?

- Ans
- 1. One
  - 2. Two
  - 3. Three
  - 4. None

Section : General Awareness

Q.1 Which of the following State governments has launched a scheme 'Ankur' in May 2021 to promote planting of trees in public, wherein people will be awarded for planting and taking care of the saplings?

- Ans
- 1. Bihar
  - 2. West Bengal
  - 3. Uttarakhand
  - 4. Madhya Pradesh

Q.2 In the Right-Hand Thumb Rule, the thumb is directed towards the direction of:

- Ans
- 1. current
  - 2. electric field
  - 3. motion of the conductor
  - 4. magnetic field



Q.3 Match the following Sportsman in List I and Award in List II:

LIST I- Sportsman	LIST II-Award
A Devendra Jhajharia	i Padma Shri 2022
B Sumit Antil	ii Padma Bhushan 2022
C Neeraj Chopra	iii Arjun Award 2021
D Shikhar Dhawan	iv Major Dhyan Chand Khel Ratna Award 2021

- Ans
- 1. A-ii, B-i, C-iv, D- iii
  - 2. A-iii, B-iv, C-i, D-ii
  - 3. A-i, B-iii, C-ii, D-iv
  - 4. A-iv, B-i, C-iii, D-ii

Q.4 Which of the following Articles of the Indian Constitution CANNOT be suspended even during an emergency declared on the grounds of war or external aggression?

- Ans
- 1. Articles 15 and 17
  - 2. Articles 20 and 21
  - 3. Articles 14 and 16
  - 4. Articles 30 and 32

Q.5 Which of the following is the largest inhabited riverine island in the world?

- Ans
- 1. Peacock
  - 2. Majuli
  - 3. Bhavani
  - 4. Lakshadweep

Q.6 In which year was the battle of Buxar fought?

- Ans
- 1. 1793
  - 2. 1777
  - 3. 1764
  - 4. 1757

Q.7 What was the main objective of the Second Green Revolution in India?

- Ans
- 1. Ensuring food security in the western states
  - 2. Promoting conventional agricultural practices
  - 3. Focusing on holistic development in agriculture
  - 4. Increasing the use of chemical fertilizers and pesticides

Q.8 Who among the following was the youngest recipient of the Sangeetha Kalanidhi awarded by the Music Academy in 1947?

- Ans
- 1. Semmangudi Radhakrishna Srinivasa Iyer
  - 2. Ariyakudi Ramanuja Iyengar
  - 3. Mallikarjun Bheemarayappa Mansur
  - 4. Bhimsen Joshi

Q.9 In Newlands' Octaves, the properties of lithium and \_\_\_\_\_ were found to be the same.

- Ans
- 1. sodium
  - 2. aluminium
  - 3. magnesium
  - 4. beryllium

Q.10 Which of the following is Fisher's equation of exchange?

- Ans
- 1.  $MV = PT$
  - 2.  $MT = VP$
  - 3.  $M = S + I$
  - 4.  $\frac{M}{V} = \frac{T}{P}$

Q.11 Which web portal was launched by the Department of Telecommunications for sharing information on mobile towers and EMF emission compliance?

- Ans
- 1. E-Amrit
  - 2. Namaste
  - 3. Tarang Sanchar
  - 4. PM-Daksh

Q.12 Which of the following Acts passed under Warren Hastings was also called 'half-loaf system'?

- Ans
- 1. Pitt's India Act 1784
  - 2. Government of India Act 1858
  - 3. Charter Act 1813
  - 4. Regulating Act 1773

Q.13 Which Article of the Indian Constitution mentions that 'The State shall endeavour to promote cottage industries on an individual or co-operative basis in rural areas'?

- Ans
- 1. Article 44
  - 2. Article 49
  - 3. Article 43
  - 4. Article 42

Q.14 Which of the following is the most controversial Article in the Indian Constitution, which provides for President's rule in any state?

- Ans
- 1. Article 358
  - 2. Article 356
  - 3. Article 360
  - 4. Article 352

Q.15 In 1539, the Battle of Chausa was fought between Humayun and \_\_\_\_\_.

- Ans
- 1. Ibrahim Lodhi
  - 2. Sher Shah Suri
  - 3. Sikandar Suri
  - 4. Rana Sanga

Q.16 India hosted the Asian Games in which of the following years?

- Ans
- 1. 1954 and 1986
  - 2. 1951 and 1982
  - 3. 1951 and 1986
  - 4. 1954 and 1982

Q.17 A dense mass of water drops on smoke or dust particles in the lower atmosphere layers is referred to as:

- Ans
- 1. mist
  - 2. blizzard
  - 3. frost
  - 4. smog

Q.18 Sardhana Christian Fair is held in which of the following states?

- Ans
- 1. West Bengal
  - 2. Haryana
  - 3. Madhya Pradesh
  - 4. Uttar Pradesh

Q.19 Ali Akbar Khan was associated with which of the following gharanas?

- Ans
- 1. Maihar gharana
  - 2. Agra gharana
  - 3. Gwalior gharana
  - 4. Kirana gharana

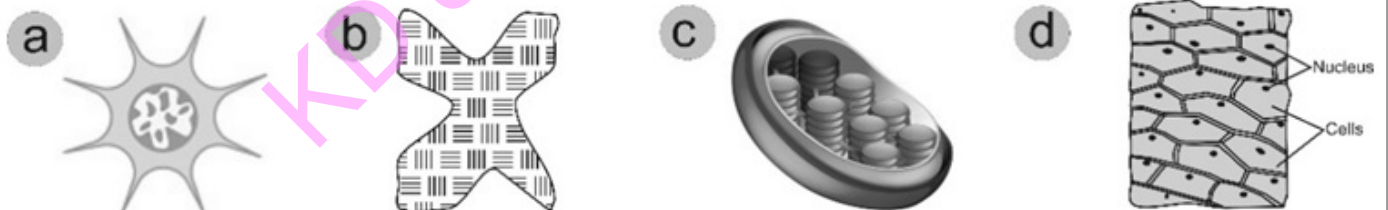
Q.20 Which of the following movements created regional disparities between large and small farmers in India?

- Ans
- 1. Green revolution
  - 2. Yellow revolution
  - 3. Pink revolution
  - 4. Blue revolution

Q.21 Ellelakkari dance of Kerala is performed by which of the following tribes?

- Ans
- 1. Irular tribe
  - 2. Kurumba tribe
  - 3. Adiyar tribe
  - 4. Mavilam tribe

Q.22 Which of the following illustrations is related to chloroplasts?



- Ans
- 1. a
  - 2. c
  - 3. d
  - 4. b

Q.23 Who among the following generally used to head the provincial administration under the Mauryas?

- Ans
- 1. Dandapala
  - 2. Kumara
  - 3. Samaharta
  - 4. Prashasti

Q.24 Bhakti Pradeep Kulkarni is associated with \_\_\_\_\_.

- Ans
- 1. badminton
  - 2. kabaddi
  - 3. chess
  - 4. cricket

Q.25 Which is the most important protein component in milk, both quantitatively and nutritionally, that accounts for about 80% of the total protein in bovine milk?

- Ans
- 1. Actin
  - 2. Albumin
  - 3. Pepsin
  - 4. Casein

Section : Quantitative Aptitude

Q.1 In a kite ABCD, longer diagonal BD is drawn. If  $\angle ABD = 54^\circ$  and  $\angle ADB = 50^\circ$ , then what is the measure (in degrees) of the  $\angle DCB$ ?

- Ans
- 1. 108
  - 2. 76
  - 3. 100
  - 4. 54

Q.2 Three candidates X, Y and Z participated in an election. X got 30% more votes than Y, whereas Z got 25% more votes than Y. X also overtook Z by 5000 votes. If 71% of the voters voted and no invalid votes were cast, then what was the total number of voters in the voting list?

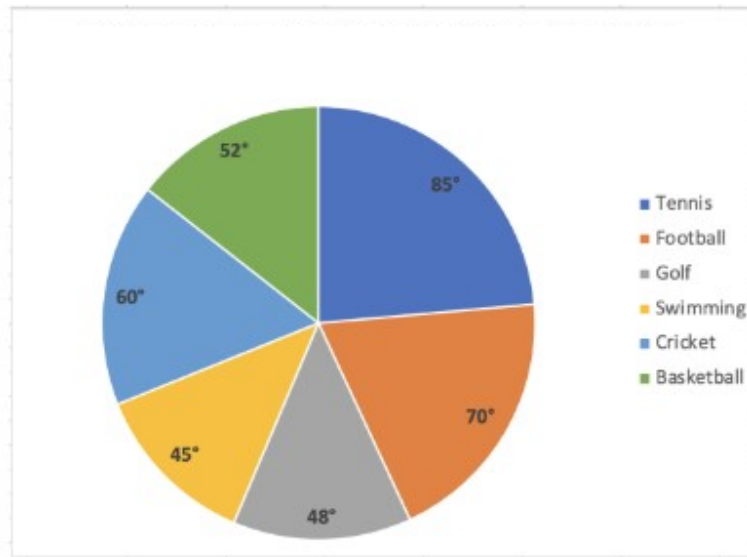
- Ans
- 1. 5,00,000
  - 2. 4,05,000
  - 3. 3,55,000
  - 4. 4,50,000

Q.3 The given table shows the number of candidates appeared in an interview for different posts (A, B, C, D, E and F). What is the average number of candidates appearing for the posts C, D, E and F?

Posts	Candidates appearing
A	5500
B	8200
C	8600
D	9900
E	5300
F	5100

- Ans
- 1. 7600
  - 2. 8000
  - 3. 7225
  - 4. 7500

**Q.4** The pie-chart below shows the expenditures (in ₹ lakh) of a country on various sports during a particular year. Study the graph carefully and answer the question given below it.



What is the average expenditure (in ₹ lakh) on tennis, golf, swimming, and basketball, if the expenditure on cricket is ₹72 lakh?

- Ans**
- 1. 138
  - 2. 44
  - 3. 69
  - 4. 120

**Q.5** In a rectangular field, the sum of the length and the breadth is 9 cm and area is 18 cm<sup>2</sup>. If the length is 'a' and breadth is 'b', then find the value of (a<sup>2</sup> - ab + b<sup>2</sup>).

- Ans**
- 1. 36
  - 2. 24
  - 3. 18
  - 4. 27

**Q.6** Which of the following numbers is NOT divisible by 8?

- Ans**
- 1. 7344
  - 2. 5544
  - 3. 7497
  - 4. 4608

- Q.7 The given table shows the expenditure in (in crores ₹) of three companies A, B and C and the percentage profit of these companies in different years. Given that:

$$\text{Income} = \text{Expenditure} + \text{Expenditure} \times \frac{\text{Profit \%}}{100}$$

Years	Company A		Company B		Company C	
	Expenditure	Profit	Expenditure	Profit	Expenditure	Profit
2002	24	50%	20	40%	40	45%
2003	30	45%	15	25%	50	55%
2004	36	40%	25	35%	60	65%
2005	40	60%	35	48%	80	75%

What is the income (in crore ₹) of Company C in the year 2003?

- Ans
- 1. 75.7
  - 2. 77.5
  - 3. 105
  - 4. 69.8

- Q.8 If the area of a sector of a circle is  $462 \text{ cm}^2$  and the central angle is  $120^\circ$ , then its radius is \_\_\_\_.

- Ans
- 1. 18 cm
  - 2. 17 cm
  - 3. 21 cm
  - 4. 14 cm

- Q.9 The value of  $[15 \div 3 \times 7 - 8 \text{ of } 2 + 6]$  is:

- Ans
- 1. 13
  - 2. 25
  - 3. -29
  - 4. 39.5

- Q.10 Two inlet pipes, P1 and P2, can fill a cistern in 20 hours and 30 hours, respectively. They were opened at the same time, but pipe P1 had to be closed 5 hours before the cistern was full. How many hours in total did it take for the two pipes to fill the cistern?

- Ans
- 1. 15 hours
  - 2. 9 hours
  - 3. 12 hours
  - 4. 10 hours

- Q.11 If  $\tan \theta = \frac{5}{8}$ , then find the value of  $\frac{(1 + \cos \theta)(1 - \cos \theta)}{(1 + \sin \theta)(1 - \sin \theta)}$ .

- Ans
- 1.  $\frac{5}{64}$
  - 2.  $\frac{2}{25}$
  - 3.  $\frac{25}{64}$
  - 4.  $\frac{64}{25}$

Q. Find the gain percentage, given that Anubha sold her scooter for ₹23358 gaining  $\frac{1}{6}$ th of the selling price.

1  
2  
A  
n  
s

1. 25%

2. 35%

3. 20%

4. 30%

Q.13 A thief is spotted by a policeman from a distance of 195 metres. When the policeman starts the chase, the thief also starts running. If the speed of the thief is 22 km/h and that of the policeman is 27 km/h, then how far would the thief have run (in m) before he is overtaken?

Ans  1. 825

2. 951

3. 858

4. 958

Q.14 For the equations  $ax + (a^2 + 1)y = 4$  and  $4x + ay = a^2$ , which of the following statements is TRUE?

Ans  1. If  $a = 6$ , then  $x = \frac{325}{28}$ ,  $y = -\frac{25}{28}$  are the solutions.

2. If  $a = 6$ , then  $x = 48$ ,  $y = 4$  are the solutions.

3. If  $a = -12$ , then  $x = \frac{325}{28}$ ,  $y = -\frac{25}{28}$  are the solutions.

4. If  $a = -12$ , then  $x = 48$ ,  $y = 4$  are the solutions.

Q.15 A cooker is marked at ₹12,500. The dealer allows successive discounts of 6%, 6% and 4% on it. What is the net selling price of the cooker?

Ans  1. ₹10,603.20

2. ₹10,306

3. ₹12,230

4. ₹12,320.60

Q.16 Pranav borrows a sum of ₹598397 at the rate of 20% per annum simple interest. At the end of the first year, he repays ₹24284 towards return of principal amount borrowed. If Pranav clears all pending dues at the end of the second year, including interest payment that accrued during the first year, how much does he pay (in ₹) at the end of the second year?

Ans  1. 812514

2. 808615

3. 818513

4. 817567

Q.17 In  $\Delta PQR$ , if  $PT$  is the median, then which of the following is correct?

Ans  1.  $PQ^2 + PR^2 = PT^2 + QR^2$

2.  $PQ^2 + PR^2 = 2(PT^2 + QT^2)$

3.  $PQ^2 + PR^2 = 2(PT^2 - QT^2)$

4.  $PQ^2 + PR^2 = PT^2 + QT^2$

Q.18 Study the given table and answer the question that follows.

The given table shows the number of candidates who appeared (both male and female) in a Public Examination and the percentage of those who qualified in the examination from two states X and Z. Few values are missing in the table (indicated by -----). You will be required to fill them up according to the question.

Year	State X		State Z	
	Number of appeared candidates	Percentage of qualified candidates	Number of appeared candidates	Percentage of qualified candidates
2008	480	70%	-----	70%
2009	560	75%	-----	80%
2010	-----	60%	650	50%
2011	450	89%	720	72%
2012	790	-----	660	-----

The number of appeared candidates from State Z increased by 100% from 2008 to 2009. If the total number of qualified candidates from State Z in 2008 and 2009 together is 552, what is the number of appeared candidates from State Z in 2009?

- Ans
- 1. 360
  - 2. 240
  - 3. 480
  - 4. 600

Q.19 The total surface area of a closed cube is given as  $1152 \text{ cm}^2$ . What is the length (in cm) of each side of the cube?

- Ans
- 1.  $9\sqrt{2}$
  - 2.  $4\sqrt{13}$
  - 3.  $8\sqrt{3}$
  - 4.  $8\sqrt{2}$

Q.20 If  $\tan \theta + \cot \theta = 2$ , and  $\theta$  is an acute angle, then the value of  $\theta$  is:

- Ans
- 1.  $30^\circ$
  - 2.  $15^\circ$
  - 3.  $60^\circ$
  - 4.  $45^\circ$

Q.21 From a point A, a tangent line is drawn to the circle of radius 7 units. From the same point, a secant is drawn to the circle which cuts the circle at B and C and the point B is near A than C. What is the length of BC in units if the length of the tangent to the circle from point A is 21 units and the length of AB is 14 units?

- Ans
- 1. 18.5
  - 2. 16.5
  - 3. 15.5
  - 4. 17.5



Q.22

If A is an acute angle, then  $\sqrt{\frac{1 - \cos A}{1 + \cos A}} + \sqrt{\frac{1 + \cos A}{1 - \cos A}}$  is equal to:

- Ans
- 1.  $2 \operatorname{cosec} A$
  - 2.  $2 \cos A$
  - 3.  $2 \sec A$
  - 4.  $2 \sin A$

Q.23

Simplify  $\frac{(25)^4 + 1250 + 1 - (25)^2}{(25)^2 + 25 + 1}$ .

- Ans
- 1. 602
  - 2. 601
  - 3. 603
  - 4. 604

Q.24 The ratio of boys to girls initial in a college is 5 : 6. If 40 boys leave the college and 50 girls join the college, the ratio will become 8 : 11. Find the number of girls (initial) in the college.

- Ans
- 1. 740
  - 2. 860
  - 3. 720
  - 4. 640

Q.25 A class of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 68. What is the average score of the class?

- Ans
- 1. 63.6
  - 2. 65.6
  - 3. 66.6
  - 4. 64.6

Section : English Comprehension

Q.1 Select the option that can be used as a one-word substitute for the given group of words.  
An utter state of confusion

- Ans
- 1. Pathos
  - 2. Engross
  - 3. Innuendos
  - 4. Chaos

Q.2 Select the most appropriate option to substitute the underlined segment in the given sentence.

After reflecting on the matter regarding his boss's selfish attitude, Raju decided to force himself to perform an unpleasant action in a difficult situation in order to resolve the matter.

- Ans
- 1. bite the bullet
  - 2. dodge the bullet
  - 3. shoot the bullet
  - 4. ignore the bullet

Q.3 Identify the INCORRECTLY spelt word in the following sentence and select its correct spelling from the given options.  
The occurrence of this phenomenon is quite rare.

- Ans
- 1. occurrence
  - 2. occerence
  - 3. occurrence
  - 4. occurance

Q.4 Select the option that expresses the given sentence in passive voice.

Meenakshi could have sent a reply.

- Ans
- 1. A reply could have be sent by Meenakshi.
  - 2. A reply could have been sent by Meenakshi.
  - 3. A reply could have sent by Meenakshi.
  - 4. A reply could have been send by Meenakshi.

Q.5 Select the option that can be used as a one-word substitute for the given group of words.  
Lack of interest, enthusiasm or concern

- Ans
- 1. Sympathy
  - 2. Apathy
  - 3. Empathy
  - 4. Antipathy

Q.6 Select the most appropriate synonym of the given word.  
Beseech

- Ans
- 1. Pamper
  - 2. Implore
  - 3. Impart
  - 4. Bequeath

Q.7 Select the option that corrects the error in the given sentence.  
She sings good.

- Ans
- 1. better
  - 2. best
  - 3. goodly
  - 4. well

Q.8 Select the INCORRECTLY spelt word.

- Ans
- 1. Interrupt
  - 2. Occurrence
  - 3. Beggining
  - 4. Cemetery

Q.9 Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct sequence to form a meaningful sentence.

(P) society benefits from diversity  
(Q) enriching cultures and  
(O) by fostering understanding and empathy  
(R) perspectives from around the world

- Ans
- 1. QPRO
  - 2. POQR
  - 3. RPOQ
  - 4. ROQP

Q.10 Select the most appropriate option that can substitute the underlined segment in the given sentence.

No sooner did Mr. Piyahri Mishra finish his chemistry lecture that the students began to leave.

- Ans
- 1. so the students began to leave.
  - 2. then the students began to leave.
  - 3. and the students began to leave.
  - 4. than the students began to leave.

**Q.11** Select the option that can be used as a one-word substitute for the given group of words.

The study of ancient things such as art, graves, ruins etc.

- Ans**
- 1. Astrology
  - 2. Archaeology
  - 3. Geology
  - 4. Meteorology

**Q.12** Select the term which means the same as the given group of words.

A continuing unpleasant situation, created when one problem causes another problem that then makes the first problem worse

- Ans**
- 1. Vicious cycle
  - 2. Round cycle
  - 3. Repetitive cycle
  - 4. Enclosed cycle

**Q.13** Select the most appropriate synonym of the given word.

Miraculous

- Ans**
- 1. Draining
  - 2. Average
  - 3. Expected
  - 4. Incredible

**Q.14** Select the option that expresses the given sentence in passive voice.

The school will hire new teachers.

- Ans**
- 1. New teachers will join the school.
  - 2. The school will be hiring new teachers.
  - 3. New teachers are hired by the school.
  - 4. New teachers will be hired by the school.

**Q.15** Select the most appropriate ANTONYM of the given word.

Absolve

- Ans**
- 1. Commend
  - 2. Accuse
  - 3. Excuse
  - 4. Appeal

**Q.16** Select the option that can be used as a one-word substitute for the given group of words.

A person who has supreme power or authority

- Ans**
- 1. Secular
  - 2. Sovereign
  - 3. Diversity
  - 4. Foreign

**Q.17** Select the most appropriate ANTONYM of the given word.

Appreciate

- Ans**
- 1. Depict
  - 2. Acknowledge
  - 3. Esteem
  - 4. Depreciate

**Q.18** Parts of the following sentence have been given as options. Select the option that contains an error.  
In some countries, you are not able to drink until you are 21.

- Ans**
- 1. In some countries,
  - 2. able to drink
  - 3. until you are 21.
  - 4. you are not

**Q.19** Select the most appropriate option to fill in the blank.  
The US \_\_\_\_\_ building was built in the year 1800.

- Ans**
- 1. capital
  - 2. cannibal
  - 3. captain
  - 4. capitol

**Q.20** Select the most appropriate synonym of the given word.

**Magnificent**

- Ans**
- 1. Slow
  - 2. Sacred
  - 3. Scared
  - 4. Splendid

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Augmented reality and virtual reality are two types of reality technologies that either augment or replace a real-world environment with a (1)\_\_\_\_\_ one. In augmented reality, a virtual environment coexists (2)\_\_\_\_\_ the actual world, to be instructive and offer more data about the real world that a user can access without having to search. When a handset is pointed at a piece of malfunctioning (3)\_\_\_\_\_, for example, industrial AR apps might provide rapid troubleshooting information. Virtual reality is a (4)\_\_\_\_\_ environmental simulation that completely replaces the user's surroundings with a totally virtual world. For example, VR may provide a user with a box containing a cartoon (5)\_\_\_\_\_ of Mike Tyson in a virtual boxing ring.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. simulated
  - 2. catered
  - 3. revealed
  - 4. suffocated

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Augmented reality and virtual reality are two types of reality technologies that either augment or replace a real-world environment with a (1)\_\_\_\_\_ one. In augmented reality, a virtual environment coexists (2)\_\_\_\_\_ the actual world, to be instructive and offer more data about the real world that a user can access without having to search. When a handset is pointed at a piece of malfunctioning (3)\_\_\_\_\_, for example, industrial AR apps might provide rapid troubleshooting information. Virtual reality is a (4)\_\_\_\_\_ environmental simulation that completely replaces the user's surroundings with a totally virtual world. For example, VR may provide a user with a box containing a cartoon (5)\_\_\_\_\_ of Mike Tyson in a virtual boxing ring.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. with
  - 2. behind
  - 3. along
  - 4. beyond

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Augmented reality and virtual reality are two types of reality technologies that either augment or replace a real-world environment with a (1)\_\_\_\_\_ one. In augmented reality, a virtual environment coexists (2)\_\_\_\_\_ the actual world, to be instructive and offer more data about the real world that a user can access without having to search. When a handset is pointed at a piece of malfunctioning (3)\_\_\_\_\_, for example, industrial AR apps might provide rapid troubleshooting information. Virtual reality is a (4)\_\_\_\_\_ environmental simulation that completely replaces the user's surroundings with a totally virtual world. For example, VR may provide a user with a box containing a cartoon (5)\_\_\_\_\_ of Mike Tyson in a virtual boxing ring.

**SubQuestion No : 23****Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. equipment
  - 2. arsenal
  - 3. outfit
  - 4. baggage

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Augmented reality and virtual reality are two types of reality technologies that either augment or replace a real-world environment with a (1)\_\_\_\_\_ one. In augmented reality, a virtual environment coexists (2)\_\_\_\_\_ the actual world, to be instructive and offer more data about the real world that a user can access without having to search. When a handset is pointed at a piece of malfunctioning (3)\_\_\_\_\_, for example, industrial AR apps might provide rapid troubleshooting information. Virtual reality is a (4)\_\_\_\_\_ environmental simulation that completely replaces the user's surroundings with a totally virtual world. For example, VR may provide a user with a box containing a cartoon (5)\_\_\_\_\_ of Mike Tyson in a virtual boxing ring.

**SubQuestion No : 24****Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. comprehensive
  - 2. conclusive
  - 3. transgressive
  - 4. reprehensive

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Augmented reality and virtual reality are two types of reality technologies that either augment or replace a real-world environment with a (1)\_\_\_\_\_ one. In augmented reality, a virtual environment coexists (2)\_\_\_\_\_ the actual world, to be instructive and offer more data about the real world that a user can access without having to search. When a handset is pointed at a piece of malfunctioning (3)\_\_\_\_\_, for example, industrial AR apps might provide rapid troubleshooting information. Virtual reality is a (4)\_\_\_\_\_ environmental simulation that completely replaces the user's surroundings with a totally virtual world. For example, VR may provide a user with a box containing a cartoon (5)\_\_\_\_\_ of Mike Tyson in a virtual boxing ring.

**SubQuestion No : 25****Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. glossary
  - 2. network
  - 3. rendition
  - 4. resistance

## Combined Graduate Level Examination 2024 Tier I

Exam Date	23/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Three of the following numbers are alike in a certain way and one is different. Pick the odd one out.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 15 – 3 – 108
  - 2. 18 – 11 – 63
  - 3. 12 – 8 – 36
  - 4. 21 – 14 – 72

**Q.2** Which of the following terms will replace the question mark (?) in the given series?  
JHOQ, NFSO, ?, VBAK, ZZEI

- Ans
- 1. RCWM
  - 2. RDMW
  - 3. RCXM
  - 4. RDWM

**Q.3** In a certain code language, 'RADIO' is written as 'SZEHP' and 'FREQUENCY' is written as 'GQFPVDOBZ'. How will 'TELEVISION' be written in that language?

- Ans
- 1. UDMDWHTHOM
  - 2. UDMDWHTHPM
  - 3. UDMDWHTHPN
  - 4. UDMDWHHTPM

**Q.4** The position of how many letters will remain unchanged if all the letters in the word MOBILE are arranged in English alphabetical order?

- Ans
- 1. One
  - 2. None
  - 3. Three
  - 4. Two

**Q.5** 12 is related to 235 by certain logic. Following the same logic, 14 is related to 287. To which of the following is 18 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 512
  - 2. 320
  - 3. 415
  - 4. 438

Q.6 Select the option that can replace the question mark (?) in the following series.  
BH14, CJ17, DL20, EN23, ?

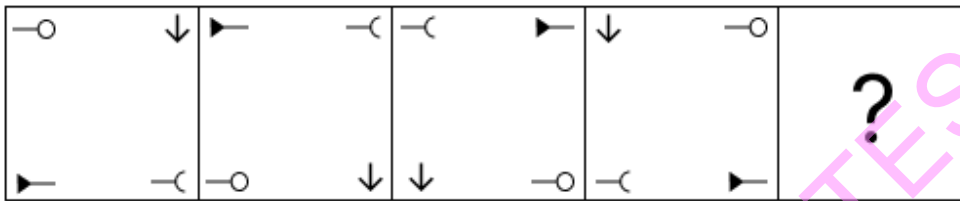
- Ans
- 1. GO24
  - 2. FP26
  - 3. FO24
  - 4. GP26

Q.7 Select the triad in which the numbers are related in the same way as are the numbers of the given triads.  
(25, 22, 47), (31, 24, 55)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. (22, 19, 45)
  - 2. (18, 21, 39)
  - 3. (27, 25, 42)
  - 4. (17, 15, 22)

Q.8 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?



Ans

- 1.
- 2.
- 3.
- 4.

Q.9 Select the number from among the given options that can replace the question mark (?) in the following series.  
389, 420, 457, 498, 541, ?

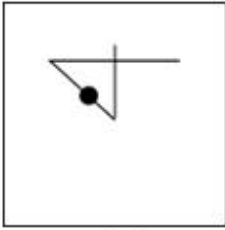
- Ans
- 1. 588
  - 2. 584
  - 3. 598
  - 4. 572

Q.10 Based on the position in the English alphabetical order, three of the following letter-clusters are alike in some manner and one is different. Select the odd letter-cluster.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans
- 1. TWGD
  - 2. PSKI
  - 3. MPNK
  - 4. JMQN

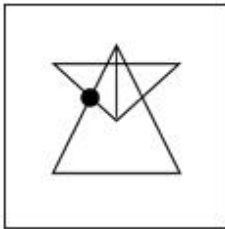
Q.11 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



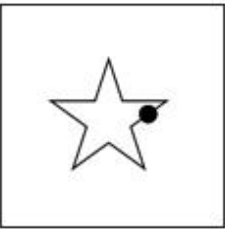
(X)

Ans

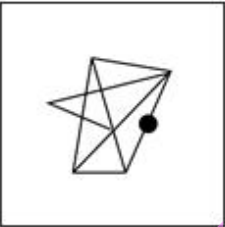
1.



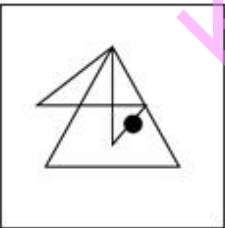
2.



3.



4.



Q.12 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$25 + 3 \div 9 - 14 \times 2 = ?$$

- Ans
- 1. 7
  - 2. 5
  - 3. 12
  - 4. 0

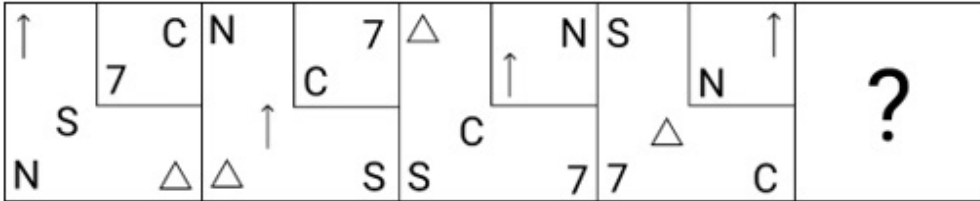


**Q.13** Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

40 : 123  
 63 : 192

- Ans**
- 1. 68 : 214
  - 2. 39 : 120
  - 3. 46 : 131
  - 4. 48 : 152

**Q.14** Which figure should replace the question mark (?) if the following series were to be continued?



**Ans**

- 1. 

C	7
N	↑
△	S
- 2. 

↑	C
N	△
S	7
- 3. 

C	N
7	△
↑	S
- 4. 

7	S
N	△
C	↑

**Q.15** Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.  
 (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)  
 France : Gallic Rooster

- Ans**
- 1. New Zealand : Hornbill
  - 2. Germany : Swan
  - 3. Australia : Emu
  - 4. India : Eagle

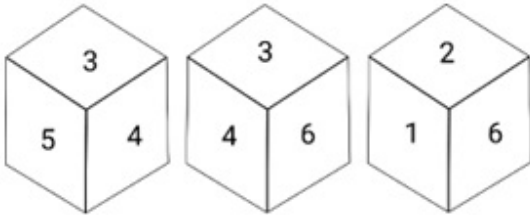
Q.16 Select the number that will come in the place of the question mark(?), if '+' and '-' are interchanged and 'x' and '÷' are interchanged  
 $63 \times 7 \div 13 - 64 + 42 = ?$

- Ans
- 1. 144
  - 2. 131
  - 3. 139
  - 4. 124

Q.17 Find the correct combination of letters that when sequentially filled in the blanks of the given series will make the series logically complete.  
 ABF\_HI\_NOP\_U\_WABCDH\_

- Ans
- 1. GMTUI
  - 2. IMTVI
  - 3. GMSVI
  - 4. GMTVI

Q.18 Three different positions of the same dice are given. Find the number on the face opposite to the face showing '2'.



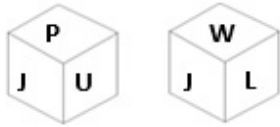
- Ans
- 1. 3
  - 2. 4
  - 3. 1
  - 4. 6

Q.19 A transparent sheet with a pattern is given below. Select the option that depicts the pattern that would appear when the given transparent sheet is folded at the middle horizontal line.



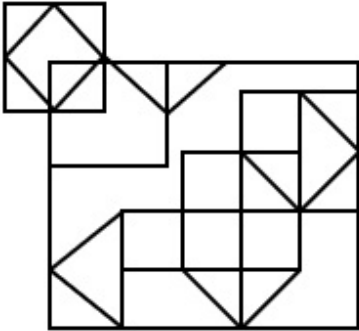
- Ans
- 1.
  - 2.
  - 3.
  - 4.

Q.20 Six letters P, J, U, W, L and K are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to P.



- Ans
- 1. U
  - 2. K
  - 3. W
  - 4. J

Q.21 How many squares are there in the given figure?



- Ans
- 1. 14
  - 2. 12
  - 3. 11
  - 4. 15

Q.22 If  
'A & Z' means 'A is the brother of Z',  
'A # Z' means 'A is the sister of Z',  
'A ^ Z' means 'A is the brother of Z's father',  
'A @ Z' means 'A is the wife of Z',  
'A % Z' means 'A is the mother of Z',  
'A α Z' means 'A is the father of Z',  
then how is J related to Z in the following expression?

J % K # L @ M α N & Z

- Ans
- 1. Mother
  - 2. Father's mother
  - 3. Mother's sister
  - 4. Mother's mother

Q.23 All the alphabets in the word 'DICTIONARY' are arranged in the alphabetical order. How many alphabets are there in the English alphabetical series between the alphabet which is fourth from the left end and the one which is second from the right end in the newly formed letter-cluster?

- Ans
- 1. 9
  - 2. 10
  - 3. 12
  - 4. 11

Q.24 In a certain code language, 'BOTH' is written as 'DQVJ' and 'DARE' is written as 'FCTG' How will 'WILL' be written in that language?

- Ans
- 1. XJMM
  - 2. YJMN
  - 3. XKNM
  - 4. YKNN

Q.25 Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter series.

S \_ Y A \_ F I K M \_ S U W

- Ans
- 1. VCP
  - 2. VBP
  - 3. VCQ
  - 4. UCP

Section : General Awareness

Q.1 The National Youth Policy was launched in:

- Ans
- 1. 2012
  - 2. 2013
  - 3. 2014
  - 4. 2015

Q.2 Which among the following was NOT a part of the three sections of the Rigvedic tribe?

- Ans
- 1. Craftsman
  - 2. Priests
  - 3. Ordinary people
  - 4. Warriors

Q.3 Who holds the record for the longest long jump in India as of 2023?

- Ans
- 1. Jeswin aldrin
  - 2. TC Yohannan
  - 3. Murali S
  - 4. Nayana James

Q.4 Which part of the Constitution deals with the Panchayats?

- Ans
- 1. Part IV
  - 2. Part IX
  - 3. Part VII
  - 4. Part X

Q.5 Which of the following battles was fought between Babur and Rana Sanga in 1527?

- Ans
- 1. Battle of Bayana
  - 2. Battle of Khanwa
  - 3. Second battle of Panipat
  - 4. Battle of Chanderi

Q.6 Who among the following was the President of the Belgaum Session of the Indian National Congress held in 1924?

- Ans
- 1. Mahatma Gandhi
  - 2. Vallabhbhai Patel
  - 3. Subhas Chandra Bose
  - 4. Jawaharlal Nehru

Q.7 'Atla Taddi' is the widely celebrated festival of which Indian state?

- Ans
- 1. West Bengal
  - 2. Punjab
  - 3. Bihar
  - 4. Andhra Pradesh

**Q.8** Where was the 1<sup>st</sup> World Cup of Kabaddi organised in 2004?

- Ans**
- 1. Mumbai
  - 2. Hyderabad
  - 3. Punjab
  - 4. Kolkata

**Q.9** In which of the following states of India is Hojagiri dance predominantly performed?

- Ans**
- 1. Tripura
  - 2. Kerala
  - 3. Himachal Pradesh
  - 4. Maharashtra

**Q.10** Which of the following is related to neem?

- Ans**
- 1. Tendril
  - 2. Palmately
  - 3. Pinnately
  - 4. Spines

**Q.11** What is the position of India in the world's telecommunication market, as of March 2024?

- Ans**
- 1. Fourth
  - 2. Third
  - 3. First
  - 4. Second

**Q.12** Which national park in the Andaman and Nicobar Islands is home to species like Megapode, crab-eating Macaque, Nicobar Pigeon, and Giant Robber Crab?

- Ans**
- 1. Raimona National Park
  - 2. Campbell Bay National Park
  - 3. Mouling National Park
  - 4. Papikonda National Park

**Q.13** A chemical reaction in which the rate of reaction is directly proportional to the first power of the concentration of the reacting substance is called:

- Ans**
- 1. zero order reaction
  - 2. third order reaction
  - 3. second order reaction
  - 4. first order reaction

**Q.14** For which film did Asha Bhosle win the International Indian Film Academy (IIFA) Award in the Best Playback Singer Female category in 2002?

- Ans**
- 1. Devdas
  - 2. Humraz
  - 3. Om Jai Jagdish
  - 4. Lagaan

**Q.15** The government of which of the following states allocated ₹11,728 crore for the Aasara pension scheme in its annual budget for the fiscal year 2022-23?

- Ans**
- 1. Telangana
  - 2. Odisha
  - 3. Gujarat
  - 4. Chhattisgarh

Q.16 The Permanent Settlement came into operation in which of the following years?

- Ans
- 1. 1890
  - 2. 1790
  - 3. 1789
  - 4. 1793

Q.17 Consider the following statements related to the Online Dispute Resolution (ODR) handbook.

- 1.It will be launched by the Ministry of Science and Technology.
  - 2.ODR is the resolution for cases outside courts using digital technology and techniques of Alternative Dispute Resolution (ADR), such as negotiation, mediation and arbitration.
  - 3.The development of ICT and increased use of internet has played a major role for ODR.
- Which of the given statements is/are correct?

- Ans
- 1. Only 1 and 3
  - 2. Only 2 and 3
  - 3. Only 1
  - 4. Only 2

Q.18 Which of the following is mentioned in Article 1 of the Indian constitution?

- Ans
- 1. India that is Bharat as federation of states
  - 2. India that is Bharat as parliamentary democracy
  - 3. India that is Bharat shall be a Union of states
  - 4. India that is Bharat as presidential form of democracy

Q.19 The Flexible Inflation Targeting Framework (FITF) was introduced in India post the amendment of the Reserve Bank of India (RBI) Act, 1934 in \_\_\_\_\_.

- Ans
- 1. 2014
  - 2. 2010
  - 3. 2016
  - 4. 2020

Q.20 What is the duration of monsoon in India?

- Ans
- 1. 100-120 days
  - 2. 40-60 days
  - 3. 150-200 days
  - 4. 50-80 days

Q.21 Articles 52 to 78 in Part V of the Indian Constitution deal with \_\_\_\_\_.

- Ans
- 1. Finance Commission of India
  - 2. Union Executive
  - 3. Amendment of the Constitution
  - 4. National emergency

Q.22 Ali Akbar Khan is known for playing the \_\_\_\_\_.

- Ans
- 1. Ektara
  - 2. Sarangi
  - 3. Tanpura
  - 4. Sarod

**Q.23** The northern plain of the Indian subcontinent has been formed by the interplay of the three major river systems along with their tributaries. Choose the odd one out of the options given.

- Ans**
- 1. The Brahmaputra
  - 2. The Indus
  - 3. The Ganga
  - 4. The Godavari

**Q.24** Name the phenomenon where an opaque object on the path of light becomes very small and where light has a tendency to bend around it and not walk in a straight line.

- Ans**
- 1. Reflection of light
  - 2. Diffraction of light
  - 3. Angle of refraction
  - 4. Angle of incidence

**Q.25** Which of the following statements is/are correct?  
i. The first green revolution led to over-exploitation of natural resources.  
ii. The second Green Revolution was more focused on Southern India.  
iii. The second green revolution ensured in achieving sustainable livelihood security.

- Ans**
- 1. i and iii
  - 2. Only ii
  - 3. ii and iii
  - 4. i and ii

Section : Quantitative Aptitude

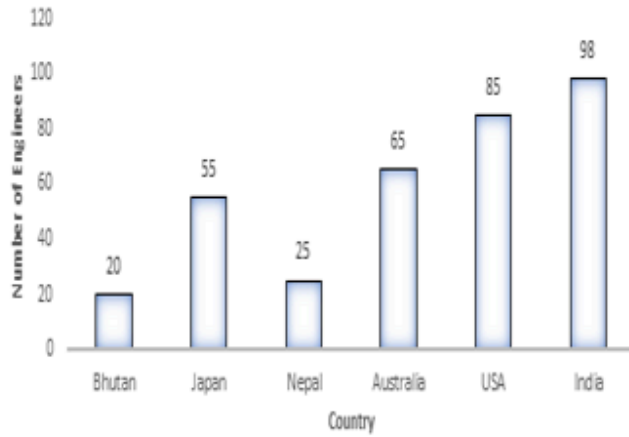
**Q.1** Simplify  
 $6 \times [28 \div 84 \times \{36 \times 49 \div (6 \times 7)\}]$ .

- Ans**
- 1. 84
  - 2. 74
  - 3. 64
  - 4. 94

**Q.2** The value of  $\theta$ , when  $\sqrt{3} \cos \theta + \sin \theta = 1$  ( $1 \leq \theta \leq 90^\circ$ ), is:

- Ans**
- 1.  $20^\circ$
  - 2.  $60^\circ$
  - 3.  $90^\circ$
  - 4.  $30^\circ$

Q.3 Study the given bar-graph and answer the question that follows.



What is the ratio of the number of engineers of countries with an above average to the number of engineers of countries with a below average?

Ans

✓ 1.  $\frac{1}{1}$

✗ 2.  $\frac{39}{71}$

✗ 3.  $\frac{2}{1}$

✗ 4.  $\frac{62}{25}$

Q.4 Find the length of the longest stick that can be fitted in a cubical vessel of edge 70 cm.

Ans

✗ 1.  $35\sqrt{3}$  cm

✓ 2.  $70\sqrt{3}$  cm

✗ 3.  $10\sqrt{3}$  cm

✗ 4.  $70\sqrt{2}$  cm

Q.5 For what least value of  $n$ ,  $2^{2n}+2n$  is completely divided by 6, where  $n$  is an integer?

Ans

✗ 1. 3

✓ 2. 1

✗ 3. 0

✗ 4. 2



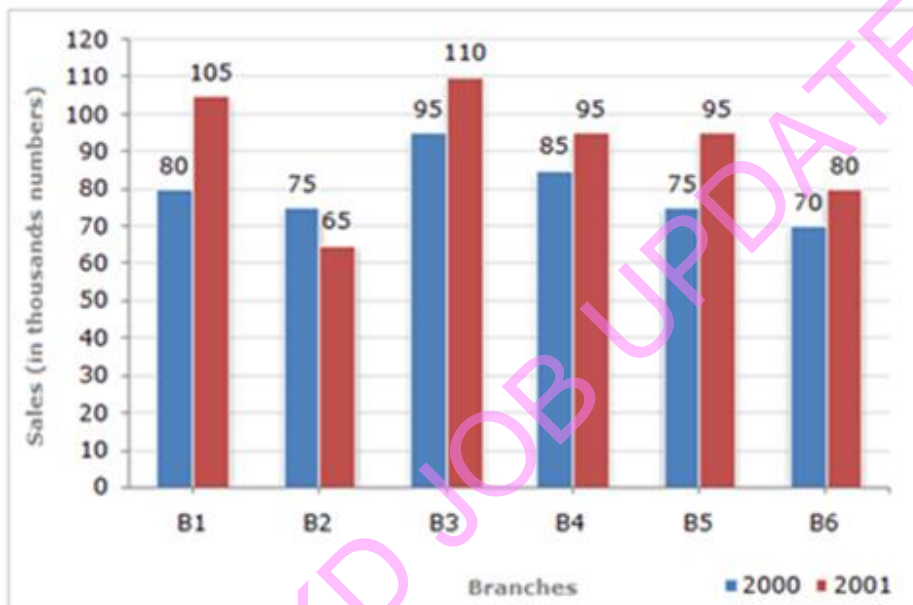
**Q.6** A trader offers the following discount schemes on the purchase of a refrigerator.  
 ( i ) a discount of 10% followed by a discount of 8%  
 ( ii ) successive discounts of 12% and 10%  
 ( iii ) two successive discounts of 12%  
 ( iv ) a discount of 20%  
 In which scheme is the selling price the lowest?

- Ans**
- 1. (iv)
  - 2. (i)
  - 3. (ii)
  - 4. (iii)

**Q.7** There is a 32 l mixture of milk and water. The ratio of milk and water in this mixture is 5 : 3. How many litres of water should be added to this mixture so that the resultant mixture has 50% water in it?

- Ans**
- 1. 8
  - 2. 6
  - 3. 5
  - 4. 4

**Q.8** Study the given bar-graph and answer the question that follows.  
 The bar-graph shows the sales of books (in thousands) from six branches (B1, B2, B3, B4, B5 and B6) of a publishing company during two consecutive years 2000 and 2001.



What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?

- Ans**
- 1. 6 : 7
  - 2. 7 : 9
  - 3. 2 : 3
  - 4. 3 : 5

**Q.9** 10 years ago, the age of Sunita was thrice the age of her daughter Tanya. 10 years hence, the age of Sunita will be twice the age of Tanya. What is the ratio of their present ages?

- Ans**
- 1. 3 : 7
  - 2. 7 : 3
  - 3. 2 : 7
  - 4. 7 : 2

**Q.10** In the following sets, which set represents the sides of a right-angled triangle?

- Ans**
- 1. {3, 4, 6}
  - 2. {8, 15, 16}
  - 3. {5, 10, 12}
  - 4. {5, 12, 13}

Q.11 R targets to score 85% marks in exams. He scores 450 marks and misses the target by 35%. How much increment in percentage should be there in his scored marks to meet the target?

- Ans
- 1. 70
  - 2. 35
  - 3. 53
  - 4. 45

Q.12 Study the given table and answer the question that follows.  
The following table shows the production of printers by four plants of a company over the five years.

Year	Production (in thousands)			
	Plant 1	Plant 2	Plant 3	Plant 4
2018	35	25	40	45
2019	43	44	44	40
2020	48	39	36	30
2021	32	40	35	48
2022	42	44	30	42

What is the difference between the average production of plant 1 and plant 2 during five years?

- Ans
- 1. 1600
  - 2. 3000
  - 3. 3840
  - 4. 1400

Q.13 A tank can be filled by pipe A in 4 hours and pipe B in 6 hours. At 8:00 a.m., pipe A was opened. At what time will the tank be filled if pipe B is opened at 9:00 a.m.?

- Ans
- 1. 10:16 a.m.
  - 2. 10:22 a.m.
  - 3. 10:48 a.m.
  - 4. 10:18 a.m.

Q.14 Let  $x = r \cos(t)$ ,  $y = r \sin(t) \cos(u)$ ,  $z = r \sin(t) \sin(u)$ . Then the value of  $x^2 + y^2 + z^2$  is \_\_\_\_.

- Ans
- 1.  $r^2 \cos(u)$
  - 2.  $r^2$
  - 3.  $2r$
  - 4.  $r^2 \sin(t)$

Q.15 30 is the mean proportional of 18 and A. Find the value of A.

- Ans
- 1. 60
  - 2. 40
  - 3. 45
  - 4. 50

Q.16 Simplify.

$$\frac{(232)^3 + (140)^3 + (353)^3 - 3 \times 232 \times 140 \times 353}{(232)^2 + (140)^2 + (353)^2 - 232 \times 140 - 140 \times 353 - 353 \times 232}$$

- Ans
- 1. 261
  - 2. 725
  - 3. 445
  - 4. 596

Q.17 A thief is noticed by a policeman from a distance of 92 m. The thief starts running and the policeman chases him. The thief and the policeman run at the speed of 90 km/h and 104.4 km/h, respectively. In how much time will the policeman catch the thief?

- Ans
- 1. 21 seconds
  - 2. 26 seconds
  - 3. 23 seconds
  - 4. 22 seconds

Q.18 Aman has certain number of notes of denomination ₹20 and ₹10 which amount to ₹390. If the numbers of notes of each kind are interchanged, then the new amount is ₹90 less than before. Find the number of notes of ₹20 denomination.

- Ans
- 1. 16
  - 2. 12
  - 3. 15
  - 4. 14

Q.19 The difference between the simple interests on the principal of ₹500 at an interest rate of 5% per annum for 3 years and 4% per annum for 4 years is:

- Ans
- 1. ₹7.5
  - 2. ₹5
  - 3. ₹15
  - 4. ₹10

Q.20 If  $4\tan\theta - 3 = 0$ , then the value of  $\frac{1 - \cos 2\theta}{1 + \cos 2\theta}$  is:

- Ans
- 1. 1
  - 2.  $\frac{7}{15}$
  - 3.  $\frac{4}{3}$
  - 4.  $\frac{9}{16}$

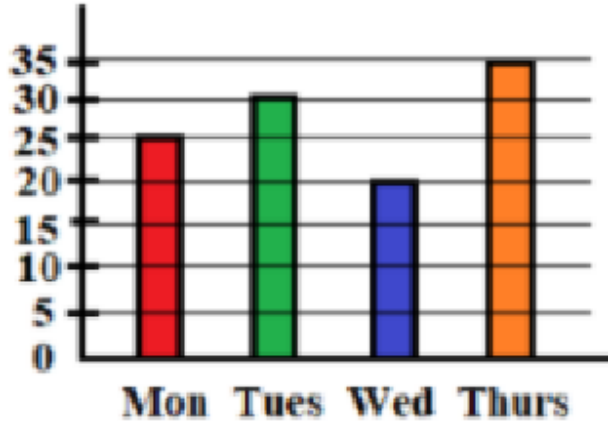
Q.21 For two circles of radius 7 units and  $\frac{7}{2}$  units, whose centres are 15 units apart, what is the length of the direct common tangent in units? (Correct to 3 decimal places.)

- Ans
- 1. 14.586
  - 2. 18.654
  - 3. 15.486
  - 4. 16.584

Q.22 A triangle ABC is made on a circle, where AB is diameter of the circle. If BC is equal to the radius of the circle and  $\angle ABC = x$   $\angle BAC$ , then x is :

- Ans
- 1. 2.5
  - 2. 2
  - 3. 1
  - 4. 1.5

Q.23 The bar graph shows the number of students present in a class on four days. The average number of students present on Monday, Tuesday and Wednesday is:



- Ans
- 1. 24
  - 2. 20
  - 3. 30
  - 4. 25

Q.24 Which of the following are the angles of a scalene triangle?

- Ans
- 1.  $60^\circ$ ,  $30^\circ$  and  $90^\circ$
  - 2.  $60^\circ$ ,  $60^\circ$  and  $60^\circ$
  - 3.  $110^\circ$ ,  $35^\circ$  and  $35^\circ$
  - 4.  $90^\circ$ ,  $45^\circ$  and  $45^\circ$

Q.25 Amit and Bilal buy goods for ₹1,500 and ₹2,000, respectively. Amit marks his goods up by  $y\%$ , while Bilal marks his goods up by  $2y\%$  and offers a discount of  $y\%$ . If both make the same profit, then find the value of  $y$ .

- Ans
- 1. 10.5
  - 2. 12
  - 3. 11.5
  - 4. 12.5

Section : English Comprehension

Q.1 Select the option that can be used as a one-word substitute for the given group of words.  
Speaking disrespectfully about sacred or religious things.

- Ans
- 1. Blasphemy
  - 2. Mystic
  - 3. Atheist
  - 4. Theist

**Q.2** Select the most appropriate option to substitute the underlined word segment in the given sentence.  
Sanat has just arrived in Mysore on transfer; he requests his friend Raghu to help him find an appropriate location.

- Ans**
- 1. an allocation recommendation
  - 2. a rented accommodation
  - 3. a proper junction
  - 4. a suitable elevation

**Q.3** The given sentence is divided into four segments. Select the option that has the segment with a grammatical error.  
Two of the world's / best forwards / has played alongside / David Beckham.

- Ans**
- 1. Two of the world's
  - 2. David Beckham.
  - 3. best forwards
  - 4. has played alongside

**Q.4** Select the most appropriate synonym of the given word.  
Adequate

- Ans**
- 1. Evaluate
  - 2. Hidden
  - 3. Sufficient
  - 4. Reconcile

**Q.5** Select the most appropriate synonym of the given word.

Brittle

- Ans**
- 1. Furtive
  - 2. Fickle
  - 3. Fragile
  - 4. Fatal

**Q.6** Select the most appropriate synonym of the given word.  
Cherish

- Ans**
- 1. Neglect
  - 2. Breach
  - 3. Nurture
  - 4. Afflict

**Q.7** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

(O) attitude is  
(P) or tendency in individuals  
(Q) a broad-based behaviour  
(R) which implies  
(S) a hypothetical postulate

- Ans**
- 1. SQPRO
  - 2. OSRQP
  - 3. OPQRS
  - 4. OPSRQ

**Q.8** Select the most appropriate ANTONYM of the given word.  
Material

- Ans**
- 1. Cheap
  - 2. Abstract
  - 3. Concrete
  - 4. Temporary

Q.9 Select the most appropriate homonyms from the given alternatives to fill in the blanks.

The rowing instructor commanded them to \_\_\_\_\_ in a \_\_\_\_\_.

A. row (verb)

B. roe

C. row (sequence)

- Ans
- 1. C, A
  - 2. B, C
  - 3. A, B
  - 4. A, C

Q.10 Select the most appropriate meaning of the given idiom.

At a low ebb

- Ans
- 1. In a depressed or weak state
  - 2. In a happy state
  - 3. In a critical moment
  - 4. In an unemployed mode

Q.11 Identify the error in the following sentence.

Ourselves should not boast of one's knowledge.

- Ans
- 1. one's
  - 2. boast
  - 3. Ourselves
  - 4. knowledge

Q.12 Select the most appropriate option that can substitute the underlined segment in the given sentence.

This book giving us much information about our freedom fighters who lost their lives while serving our motherland.

- Ans
- 1. gives us many information
  - 2. give us many information
  - 3. give us much information
  - 4. gives us much information

Q.13 Select the most appropriate meaning of the given idiom.

Off and on

- Ans
- 1. Now and then
  - 2. Know something thoroughly
  - 3. Remind
  - 4. Object to

Q.14 Given below are four jumbled sentences. Select the option that gives their correct logical sequence.

A. These are responsible for producing the major fuel used across the globe.

B. The country has 100 major oil and gas fields.

C. The economy of Saudi Arabia is based on petroleum.

D. The chief oil field is Ghawar Field having an estimated 70 billion reserve resource.

- Ans
- 1. DCAB
  - 2. ABCD
  - 3. CBAD
  - 4. BACD

**Q.15** Select the option that contains all the MISSPELT words in the following sentences.

1. The new restraunt offers a wide variety of delicious dishes.
2. I can't beleive he made such a silly mistake in his presentation.
3. The teacher asked the students to complete the assigment by Friday.
4. She felt utterly embarassed by her colleague's comments.

- Ans**
- 1. delicious, beleive, assigment, utterly
  - 2. restraunt, silly, assigment, colleague
  - 3. delicious, silly, assigment, colleague
  - 4. restraunt, beleive, assigment, embarassed

**Q.16** Select the correctly spelt word to fill in the blank.

My mother said that every relationship must have some amount of \_\_\_\_\_.

- Ans**
- 1. phlexibility
  - 2. flexebelity
  - 3. flexibility
  - 4. flaxibility

**Q.17** Select the most appropriate option to substitute the underlined segment in the given sentence.

The food intolerance industry has grown dramatically in the previous decade, chiefly because of a boost in Coeliac and Crohn's disease cases, as well as increasing awareness among health-conscious clients.

- Ans**
- 1. contextually because of a spark
  - 2. pretty much entirely because of a boil-down
  - 3. casually due to a growth
  - 4. owing primarily to a rise

**Q.18** Select the option that expresses the given sentence in passive voice.

The teenager delivered the speech.

- Ans**
- 1. The speech has been delivered by the teenager.
  - 2. The speech is delivered by the teenager.
  - 3. The speech was delivered by the teenager.
  - 4. The speech was being delivered by the teenager.

**Q.19** Select the option that expresses the given sentence in passive voice.

I have booked an apartment in the new residential colony.

- Ans**
- 1. An apartment have been booked by me in the new residential colony.
  - 2. An apartment had been booked by me in the new residential colony.
  - 3. An apartment is been booked by me in the new residential colony.
  - 4. An apartment has been booked by me in the new residential colony.

**Q.20** Select the most appropriate synonym of the word in bold.

The city has **immense** coal piers.

- Ans**
- 1. diminutive
  - 2. trifling
  - 3. set
  - 4. huge

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Culture is (1)\_\_\_\_\_, understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2)\_\_\_\_\_ important for good gardening. Culture also is similar; understanding its acquaintance (3)\_\_\_\_\_ literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4)\_\_\_\_\_ culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5)\_\_\_\_\_ only to issue course completed certificates.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. creation
  - 2. to create
  - 3. create
  - 4. creating

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Culture is (1)\_\_\_\_\_, understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2)\_\_\_\_\_ important for good gardening. Culture also is similar; understanding its acquaintance (3)\_\_\_\_\_ literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4)\_\_\_\_\_ culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5)\_\_\_\_\_ only to issue course completed certificates.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. is
  - 2. were
  - 3. was
  - 4. are

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Culture is (1)\_\_\_\_\_, understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2)\_\_\_\_\_ important for good gardening. Culture also is similar; understanding its acquaintance (3)\_\_\_\_\_ literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4)\_\_\_\_\_ culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5)\_\_\_\_\_ only to issue course completed certificates.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. for
  - 2. on
  - 3. with
  - 4. in



**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Culture is (1)\_\_\_\_\_, understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2)\_\_\_\_\_ important for good gardening. Culture also is similar; understanding its acquaintance (3)\_\_\_\_\_ literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4)\_\_\_\_\_ culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5)\_\_\_\_\_ only to issue course completed certificates.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. transmitting
  - 2. transmitted
  - 3. transmit
  - 4. transmits

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Culture is (1)\_\_\_\_\_, understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2)\_\_\_\_\_ important for good gardening. Culture also is similar; understanding its acquaintance (3)\_\_\_\_\_ literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4)\_\_\_\_\_ culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5)\_\_\_\_\_ only to issue course completed certificates.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. should be restricted
  - 2. restrict
  - 3. should restricted
  - 4. should not be restricted

## Combined Graduate Level Examination 2024 Tier I

Exam Date	23/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

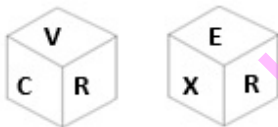
**Q.1** Select the set in which the numbers are related in the same way as are the numbers of the given sets.  
(3, 9, 27)  
(4, 16, 64)  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. (6, 36, 84)
  - 2. (9, 81, 731)
  - 3. (5, 25, 120)
  - 4. (7, 49, 343)

**Q.2** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $6408 \times 8 + 27 - 15 \div 10 = ?$

- Ans
- 1. 923
  - 2. 924
  - 3. 921
  - 4. 922

**Q.3** Six letters V, C, R, E, X and Z are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to C.



- Ans
- 1. X
  - 2. R
  - 3. V
  - 4. Z

**Q.4** Three Statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

All peas are vegetables.

All carrots are vegetables.

All vegetables are greens.

**Conclusions:**

I. All peas are greens.

II. All greens are carrots.

III. Some greens are peas.

- Ans**
- 1. Both conclusions I and III follow.
  - 2. All conclusions follow.
  - 3. Both conclusions II and III follow.
  - 4. Both conclusions I and II follow.

**Q.5** In a certain code language, 'BAKE' is coded as 'FDMF' and 'TURN' is coded as 'XXTO'. How will 'MOCK' be coded in the given language?

- Ans**
- 1. RRFL
  - 2. QREL
  - 3. RQGL
  - 4. QSEL

**Q.6** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(84, 63, 42)

(79, 47, 64)

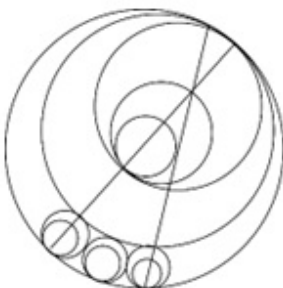
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. (75, 33, 48)
  - 2. (64, 51, 52)
  - 3. (67, 48, 57)
  - 4. (71, 53, 36)

**Q.7** Select the term from among the given options that can replace the question mark (?) in the following series.  
MY 84, KW 80, IU 76, GS 72, ?

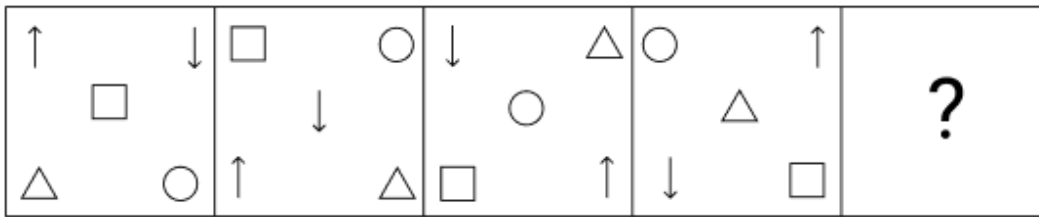
- Ans**
- 1. ER 70
  - 2. EQ 68
  - 3. FQ 71
  - 4. FP 69

**Q.8** How many circles are there in the given figure?



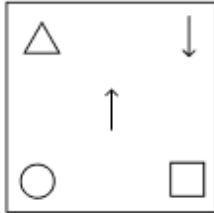
- Ans**
- 1. 11
  - 2. 10
  - 3. 13
  - 4. 12

Q.9 Identify the option figure that when put in place of the question mark (?) will logically complete the series.

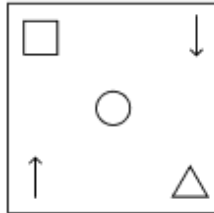


Ans

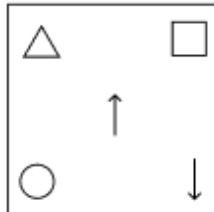
✗ 1.



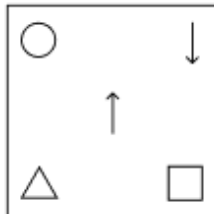
✗ 2.



✓ 3.



✗ 4.



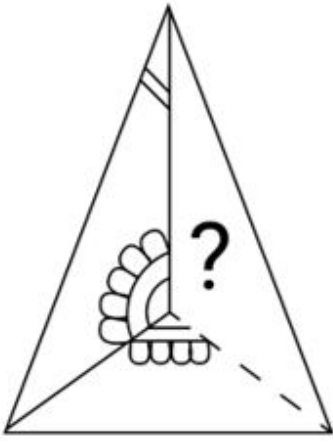
Q.10 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)  
Frequency : Hertz

- Ans
- ✗ 1. Power : Newton
  - ✗ 2. Resistance : Candela
  - ✗ 3. Force : Volt
  - ✓ 4. Illuminance : Lux

Q.11 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different. The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

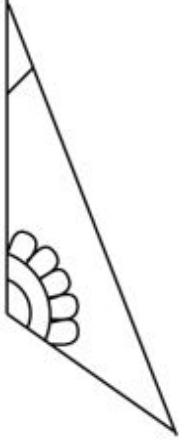
- Ans
- ✗ 1. RTTUWW
  - ✓ 2. NOPPSS
  - ✗ 3. ACCDFF
  - ✗ 4. IKKLNN

Q.12 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

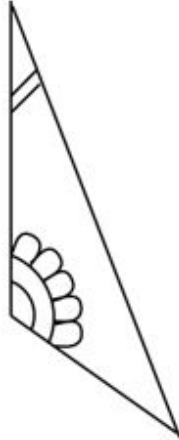


Ans

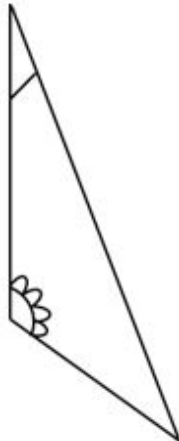
✗ 1.



✓ 2.

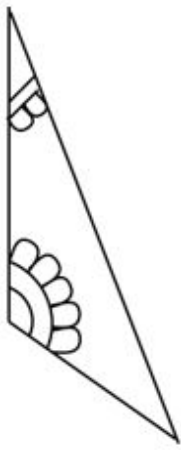


✗ 3.

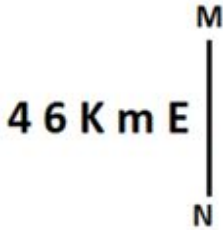


KD JOB UPDATES

X 4.



Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans

✓ 1. E m K ɹ 4

X 2. E m 6 K ɹ

X 3. E ω K ɹ 4

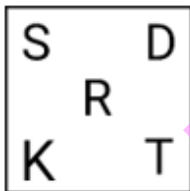
X 4. E m K ɹ 4

Q.14 Identify the figure given in the options which when put in place of ? will logically complete the series.

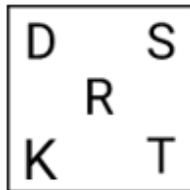
I	H	T	I	K	T	S	K	
T		K		S		D		?
J	L	L	H	H	I	I	T	

Ans

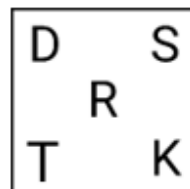
X 1.



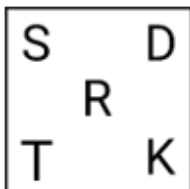
X 2.



✓ 3.



X 4.



Q.15 The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.  
 (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

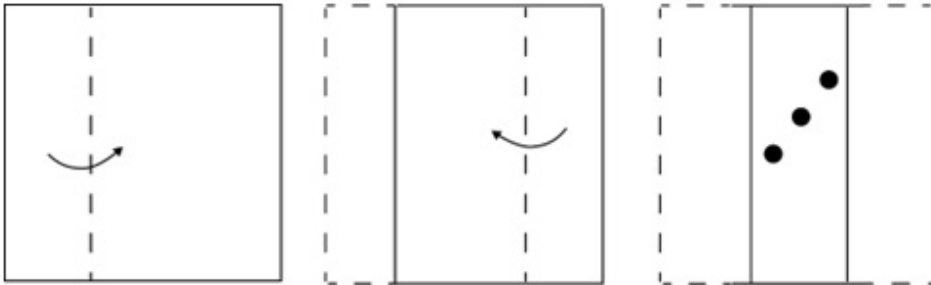
Ans  1. 24 : 4

2. 36 : 24

3. 12 : 8

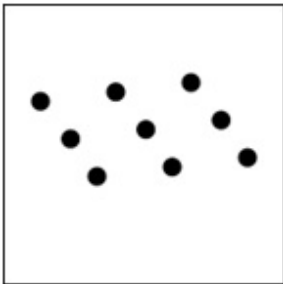
4. 72 : 48

Q.16 A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last as shown. How would the paper look when unfolded?

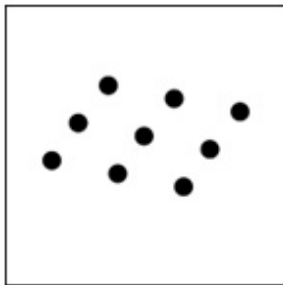


Ans

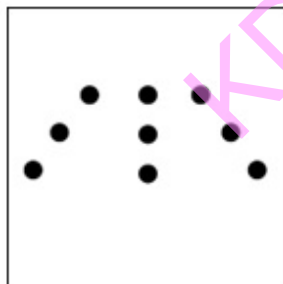
1.



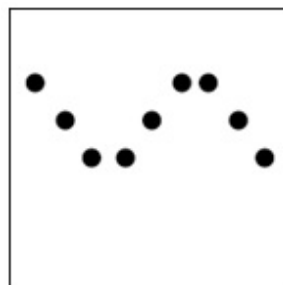
2.



3.



4.



KYD JOB UPDATES

Q.17 The position of how many letters will remain unchanged if each of the letter in the word 'IMPROVE' is arranged in English alphabetical order?

- Ans
- 1. Zero
  - 2. One
  - 3. Three
  - 4. Two

Q.18 Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All crows are parrots.

All eagles are parrots.

All parrots are birds.

Conclusions:

I. No crow is a bird.

II. Some birds are eagles.

III. All birds are crows.

- Ans
- 1. Only conclusion II follows.
  - 2. Either conclusion II or III follows.
  - 3. All conclusions follow.
  - 4. Both conclusions I and III follow.

Q.19 Which of the following numbers will replace the question mark (?) in the given series?

81, 65, 50, ?, 23, 11

- Ans
- 1. 37
  - 2. 36
  - 3. 34
  - 4. 35

Q.20 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

X \_ \_ Y \_ X X \_ \_ X \_ \_

- Ans
- 1. X X X Y X X Y
  - 2. X X Y Y A A X
  - 3. Y X X Y Y X X
  - 4. Y Y X Y A X X

Q.21 In a certain code language,  
X + Y means 'X is the sister of Y',  
X - Y means 'X is the son of Y',  
X × Y means 'X is the husband of Y',  
X ÷ Y means 'X is the mother of Y'.  
Based on the above, how is T related to X if 'T + U - V × W ÷ X'?

- Ans
- 1. Father's mother
  - 2. Sister
  - 3. Father's sister
  - 4. Mother's sister

Q.22 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$15 - 7 \div 4 + 36 \times 9 = ?$

- Ans
- 1. 42
  - 2. 34
  - 3. 40
  - 4. 39



Q.23 Which of the following terms will replace the question mark (?) in the given series?  
XJUM, VLSO, TNQQ, RPOS, ?

- Ans
- 1. PRMU
  - 2. QRMT
  - 3. PRMT
  - 4. PRNU

Q.24 In a certain code language, 'FLAKE' is written as '&2348' and 'LAKES' is written as '23@84'. How will 'S' be written in that language?

- Ans
- 1. 4
  - 2. &
  - 3. 3
  - 4. @

Q.25 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

4 : 32  
7 : 98

- Ans
- 1. 8 : 192
  - 2. 3 : 18
  - 3. 10 : 1000
  - 4. 12 : 144

Section : General Awareness

Q.1 Which of the following statements about the second five-year plan is INCORRECT?

- Ans
- 1. The plan stressed the rapid industrialisation of heavy and basic industries.
  - 2. Electricity, Railway, Steel etc. industries were established during the plan.
  - 3. The plan was based on the Keynesian Model.
  - 4. The socialist pattern of the society was reflected in the plan.

Q.2 Who among the following was appointed as the Chief Economic Advisor (CEA) to the Indian government in 2022?

- Ans
- 1. Venkatramanan Anantha Nageswaran
  - 2. Kaushik Basu
  - 3. TV Somanathan
  - 4. Raghuram Rajan

Q.3 Name the pension scheme that seeks to ensure old age protection for unorganised workers.

- Ans
- 1. Atal Pension Yojana
  - 2. Pradhan Mantri Mudra Yojna
  - 3. Pradhan Mantri Suraksha Bhima Yojna
  - 4. Pradhan Mantri Shram Yogi Maandhan

Q.4 What is the gas evolved when zinc reacts with sulphuric acid?

- Ans
- 1. Hydrogen
  - 2. Oxygen
  - 3. Carbon dioxide
  - 4. Hydrogen sulphide

**Q.5** In 2022, who has been appointed as new Attorney General of India?

- Ans**
- 1. KK Venugopal
  - 2. Niren De
  - 3. Mukul Rohatgi
  - 4. R Venkatramani

**Q.6** Which of the following is NOT a kharif crop?

- Ans**
- 1. Paddy
  - 2. Soyabean
  - 3. Wheat
  - 4. Cotton

**Q.7** Which of the following is another name of vitamin C?

- Ans**
- 1. Pyridoxine
  - 2. Pyridoxal
  - 3. Pyridoxamine
  - 4. Ascorbic acid

**Q.8** Who among the following Indian classical dancers is associated with Kuchipudi?

- Ans**
- 1. Meenakshi Medhi
  - 2. Vempati Chinna Satyam
  - 3. Sanjukta Panigrahi
  - 4. Malavika Sarkar

**Q.9** Which of the following Sultans of Delhi primarily adopted a policy of consolidation rather than expansion?

- Ans**
- 1. Ibrahim Lodi
  - 2. Balban
  - 3. Alauddin Khalji
  - 4. Bahlol Lodi

**Q.10** Which of the following team events is included in the Target Olympic Podium Scheme?

- Ans**
- 1. Tennis
  - 2. Football
  - 3. Cricket
  - 4. Hockey

**Q.11** Articles 214 to 231 in Part VI of the Indian Constitution deal with the \_\_\_\_\_.

- Ans**
- 1. High Courts
  - 2. District Courts
  - 3. Subordinate Courts
  - 4. Supreme Court

**Q.12** Which of the following ministries launched the PM Daksh scheme?

- Ans**
- 1. Ministry of Education
  - 2. Ministry of Electronics and Information Technology
  - 3. Ministry of Social Justice and Empowerment
  - 4. Ministry of Food Processing Industries

Q.13 \_\_\_\_\_ is often touted as Tansen of the 20<sup>th</sup> century, this musical genius blended the best of classical music and created a unique style of his own.

- Ans
- 1. Ustad Ali Baksh Khan
  - 2. Bade Ghulam Ali Khan
  - 3. Mubarak Ali Khan
  - 4. Barkat Ali Khan

Q.14 How many ICC World Cups has India won in ODI?

- Ans
- 1. 1
  - 2. 3
  - 3. 2
  - 4. 4

Q.15 Who first stated the principle of refraction that postulates that every substance has a specific bending ratio – ‘refractive index’?

- Ans
- 1. Dennis Gabor
  - 2. Thomas Young
  - 3. Willebrord Snellius
  - 4. David Brewster

Q.16 Coir conductor Coomi Nariman Wadia was awarded with which of the following awards by the Government of India in 2023?

- Ans
- 1. Padma Bhushan
  - 2. Padma Vibhushan
  - 3. Bharat Ratna
  - 4. Padma Shri

Q.17 Who published Systema Naturae in 1735 classifying the three kingdoms of nature and outlining the sexual system for the classification of plants?

- Ans
- 1. Carl Woese
  - 2. Robert Whittaker
  - 3. Ernst Haeckel
  - 4. Carolus Linnaeus

Q.18 When a person is NOT paying anything for public goods, it is known as \_\_\_\_\_.

- Ans
- 1. non-excludable
  - 2. rivalrous
  - 3. free rider
  - 4. private good

Q.19 In 1936, The Independent Labour Party was founded by \_\_\_\_\_.

- Ans
- 1. Mohan Singh Bhakhna
  - 2. BR Ambedkar
  - 3. Bal Gangadhar Tilak
  - 4. Bhagat Singh

Q.20 Which of the following is NOT a tributary of Ganga?

- Ans
- 1. Yamuna
  - 2. Gandak
  - 3. Kosi
  - 4. Lohit

- Q.21** The most common rainfall measurement is the total rainfall depth during a given period, which is expressed in \_\_\_\_\_.
- Ans**
- 1. kilopascal (kPa)
  - 2. millimetres (mm)
  - 3. hectopascal (hPa)
  - 4. millibar (mbar)

- Q.22** Kati Bihu is celebrated in which of the following months in Assam?
- Ans**
- 1. March
  - 2. October
  - 3. January
  - 4. November

- Q.23** With reference of Ajivikas, consider the following statements.  
a) Makkhali Gosala was the prominent teacher of this sect.  
b) Ajivikas believed in fatalism.  
Which of the above statements is/are correct?
- Ans**
- 1. Both a and b
  - 2. Neither a or b
  - 3. Only b
  - 4. Only a

- Q.24** Being the President of the Indian National Congress, who among the following had called for complete independence from the British Raj in 1929?
- Ans**
- 1. Jawaharlal Nehru
  - 2. Subhas Chandra Bose
  - 3. Sardar Vallabhbhai Patel
  - 4. Mahatma Gandhi

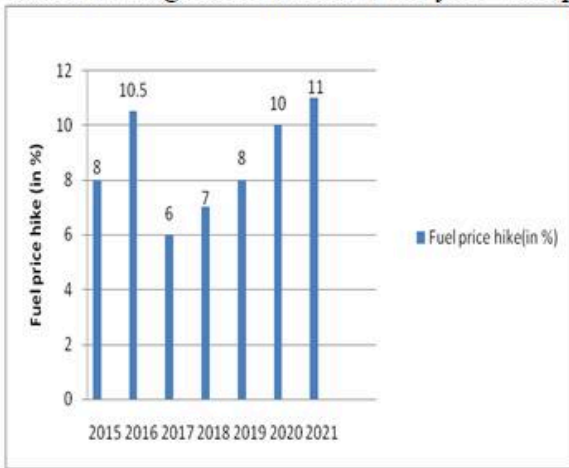
- Q.25** Which Article in the fundamental duty is invoked when you see in a private party that the Indian flag has been used as a covering for the speaker's desk?
- Ans**
- 1. Article 51A (c)
  - 2. Article 51A (d)
  - 3. Article 51A (a)
  - 4. Article 51A (b)

Section : Quantitative Aptitude

- Q.1** If  $\sin A - \cos A = \frac{\sqrt{3}-\sqrt{2}}{2}$ , then the value of  $\sin A \cdot \cos A$  is:

- Ans**
- 1.  $\frac{2\sqrt{3}-1}{4}$
  - 2.  $\frac{2\sqrt{2}-1}{8}$
  - 3.  $\frac{2\sqrt{6}-1}{8}$
  - 4.  $\frac{3\sqrt{2}-1}{4}$

Q.2 The following bar chart shows the year-wise percentage hike in the fuel price with respect to the previous year.



In how many years did the fuel prices NOT rise?

- Ans
- 1. 0
  - 2. 1
  - 3. 2
  - 4. 5

Q.3 The least number which must be subtracted from 7278745 so as to obtain a sum that is divisible by 11 is:

- Ans
- 1. 3
  - 2. 1
  - 3. 5
  - 4. 2

Q.4 A motorboat, whose speed in 15 km/h in still water goes 50 km downstream and comes back in a total of 7 hours 30 minutes. The speed of the stream (in km/h) is:

- Ans
- 1. 9
  - 2. 5
  - 3. 11
  - 4. 7

Q.5 The length, breadth and height of a room is 15 m, 9 m, and 5 m, respectively. From each can of paint 40 square metre of area is painted. How many cans of paint will be needed to paint only the walls of the room?

- Ans
- 1. 12
  - 2. 6
  - 3. 4
  - 4. 8

Q.6 The distance between the longest chord and the centre of a circle is:

- Ans
- 1. equal to zero unit
  - 2. equal to the diameter
  - 3. equal to the half of the radius
  - 4. equal to the radius

Q.7 The marked price of 55 items was equal to the cost price of 99 items. The selling price of 56 items was equal to the marked price of 35 items. Calculate the profit or loss percentage from the sale of each item.

- Ans
- 1. 15% profit
  - 2. 12.25% profit
  - 3. 12.5% profit
  - 4. 12.5% loss

Q.8 In an election between two candidates, P received 42% of the valid votes and Q won by 45,360 votes. 20% people did not cast their vote. If 10% of the votes cast were found invalid, what is the total number of votes registered in the poll booth?

- Ans
- ✓ 1. 3,93,750
  - ✗ 2. 3,59,000
  - ✗ 3. 3,93,600
  - ✗ 4. 3,53,790

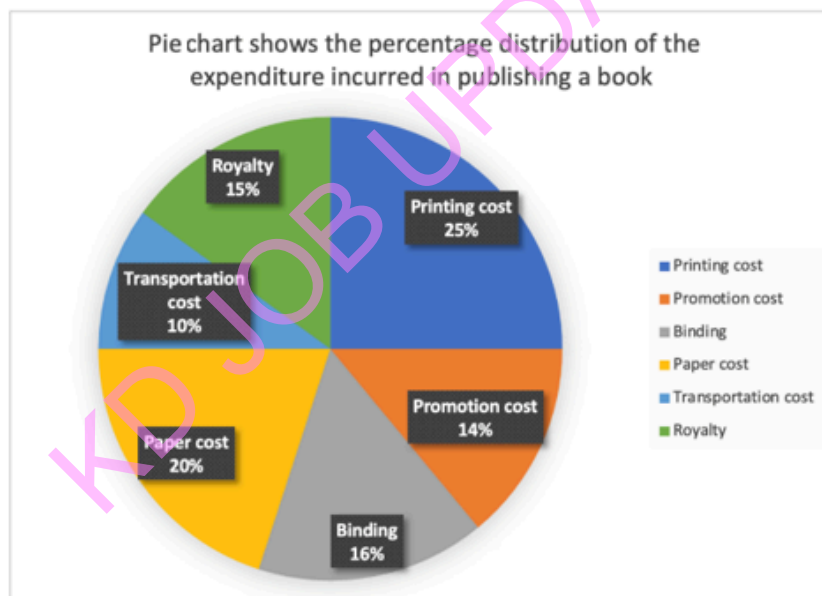
Q.9 Hema is 20 years old and her sister Neha is 30 years old. How many years ago were their ages in the ratio of 3 : 5?

- Ans
- ✗ 1. 3
  - ✗ 2. 2
  - ✗ 3. 7
  - ✓ 4. 5

Q.10 AB is the chord of the circle with centre O. A line segment DOC originating from a point D on the circumference of the circle in major segment meets AB produced at C such that  $BC = OD$ . If angle  $BCO = 30^\circ$ , then angle AOD is:

- Ans
- ✗ 1.  $30^\circ$
  - ✓ 2.  $90^\circ$
  - ✗ 3.  $60^\circ$
  - ✗ 4.  $80^\circ$

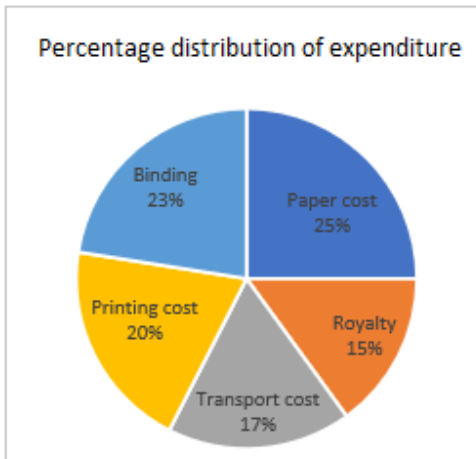
Q.11 The following pie chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie chart and answer the question that follows.



If the expenditure on royalty in publishing certain number of books be ₹43,500, then what is the combined expenditure (in ₹) on transportation, binding and printing?

- Ans
- ✗ 1. 1,97,900
  - ✗ 2. 1,79,400
  - ✗ 3. 1,79,900
  - ✓ 4. 1,47,900

Q.12 The given pie-chart shows the percentage distribution of the expenditure incurred in publishing a book.



What is the central angle of the sector corresponding to the expenditure incurred on binding?

- Ans
- 1.  $78.8^\circ$
  - 2.  $61.8^\circ$
  - 3.  $82.8^\circ$
  - 4.  $48.8^\circ$

Q.13 Simplify:

$$25 - (18 - 4 \times 9 \div 3)$$

- Ans
- 1. -31
  - 2. 33
  - 3. -17
  - 4. 19

Q.14 XAB and XCD are two secants to a circle. If  $XA = 18$  cm,  $AB = 22$  cm and  $XC = 24$  cm, then find the value of XD (in cm).

- Ans
- 1. 28
  - 2. 21
  - 3. 30
  - 4. 34

Q.15 Study the below table and answer the question that follows.

Day of the week	Distance jogged (in km)
Monday	6
Tuesday	5.5
Wednesday	5.5
Thursday	7
Friday	5
Saturday	3.5
Sunday	7.5

If 300 calories are burned by jogging 6 km, then how many calories were burnt in the given week?

- Ans
- 1. 1600
  - 2. 2200
  - 3. 1800
  - 4. 2000

Q.16 If  $\cos A + \cos^2 A = 1$  then  $\sin^2 A + \sin^4 A$  is equal to:

- Ans
- 1.  $\frac{\cos^2 A}{\cos A}$
  - 2. 0
  - 3.  $\frac{\cos A}{\cos^2 A}$
  - 4. 1

Q.17 If the medians of a triangle are equal, then the triangle will be:

- Ans
- 1. equilateral triangle
  - 2. obtuse angle triangle
  - 3. scalene triangle
  - 4. right angled triangle

Q.18 Find the fourth proportional to 4, 9 and 16.

- Ans
- 1. 18
  - 2. 27
  - 3. 36
  - 4. 16

Q.19 The value of  $\frac{1}{\operatorname{cosec} \theta - \cot \theta} - \frac{1}{\sin \theta}$  is equal to:

- Ans
- 1.  $\tan \theta$
  - 2.  $\operatorname{cosec} \theta$
  - 3.  $\cot \theta$
  - 4.  $\sec \theta$



Q.20 Ten chairs and six tables together cost ₹5,140; three chairs and two tables together cost ₹1,635. The cost of 1 chair and 1 table is:

- Ans
- 1. ₹900
  - 2. ₹600
  - 3. ₹800
  - 4. ₹700

Q.21 If  $a + b + c = 0$ , then the value of  $(a^2 + b^2 + 2ab)$  is equal to:

- Ans
- 1.  $c^2$
  - 2.  $-c^2$
  - 3.  $c$
  - 4.  $-c$

Q.22 The simple interest on a sum for 8 years is three-fifth of the sum. The rate of interest per annum is:

- Ans
- 1.  $5\frac{1}{2}\%$
  - 2.  $7\frac{1}{2}\%$
  - 3. 6%
  - 4. 9%

Q.23 The marked price of a bed sheet is ₹500. At the time of its sale, two successive discounts of 10% and 5% are available. Find the selling price (in ₹) of the bed sheet.

- Ans
- 1. 432.50
  - 2. 427.50
  - 3. 445.00
  - 4. 430.00

Q.24 A mango juice is made by mixing water and mango concentrate in the ratio 9 : 7. If  $x$  litres of water and  $3x$  litres of mango concentrate is mixed in 160 litres of mango juice, then the new ratio becomes 13 : 14. What is the quantity of the new mango juice (in litres)?

- Ans
- 1. 197
  - 2. 212
  - 3. 206
  - 4. 216

Q.25 Three pipes, P, Q and R, together take four hours to fill a tank. All the three pipes were opened at the same time. After three hours, P was closed, and Q and R filled the remaining tank in two hours. How many hours will P alone take to fill the tank?

- Ans
- 1. 8
  - 2. 10
  - 3. 12
  - 4. 9

#### Section : English Comprehension

Q.1 Select the most appropriate synonym of the given word.  
Obstinate

- Ans
- 1. Obedient
  - 2. Adaptive
  - 3. Stubborn
  - 4. Submissive

**Q.2** Select the most appropriate meaning of the given idiom.

**Left out in the cold**

- Ans**
- 1. To go underground
  - 2. To be in hiding
  - 3. To be ignored
  - 4. To be extremely negative

**Q.3** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

**P. and has also created a wide gap between them**

**Q. laid too much stress on**

**R. teachers and students**

**S. online mode of education has**

- Ans**
- 1. SRPQ
  - 2. RQPS
  - 3. SQRP
  - 4. PSQR

**Q.4** Select the option that can be used as a one-word substitute for the given group of words.

**A thing that can be easily carried by hands**

- Ans**
- 1. Export
  - 2. Import
  - 3. Potable
  - 4. Portable

**Q.5** Parts of the following sentence have been given as options. Select the option that contains an error.

**He always wants to be in the company of those who are intellectually superior than him.**

- Ans**
- 1. superior than him.
  - 2. be in the company of
  - 3. He always wants to
  - 4. those who are intellectually

**Q.6** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

**O. want**

**P. movie tonight**

**Q. do you**

**R. to watch**

**S. the**

- Ans**
- 1. RSPQO
  - 2. QORSP
  - 3. OSQPR
  - 4. OSPQR

**Q.7** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

**P) always favours**

**Q) only the**

**R) fortune**

**S) bold**

- Ans**
- 1. SQPR
  - 2. RPQS
  - 3. SRQP
  - 4. PQRS

**Q.8** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.  
A. Only for themselves  
B. Is full of  
C. People who live  
D. The world

- Ans**
- 1. BCAD
  - 2. ABCD
  - 3. DBAC
  - 4. DBCA

**Q.9** Select the option that correctly expresses the given sentence in passive voice.  
Mr. Amar refused him admittance.

- Ans**
- 1. Admittance will be refused to him by Mr. Amar.
  - 2. Admittance shall be refused to him by Mr. Amar.
  - 3. Admittance would be refused to him by Mr. Amar.
  - 4. Admittance was refused to him by Mr. Amar.

**Q.10** Select the most appropriate meaning of the given idiom.  
Break the ice

- Ans**
- 1. Nervousness before a performance
  - 2. Ill-feeling carried by a person over a period of time
  - 3. Respect for someone's achievements
  - 4. To say or do something that makes people feel more relaxed, especially at the beginning of a meeting, party

**Q.11** Select the most appropriate homophone to fill in the blank.  
The summer was \_\_\_\_\_ hot this year.

- Ans**
- 1. tow
  - 2. two
  - 3. to
  - 4. too

**Q.12** Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.  
The mothers, who suffer from postpartum depression, feel \_\_\_\_\_ by their children. (vexed)

- Ans**
- 1. delighted
  - 2. recovered
  - 3. pacific
  - 4. annoyed

**Q.13** Parts of the following sentence have been given as options. Select the option that contains an error.  
I have sing 'Let It Go' before a crowd of thousands of people.

- Ans**
- 1. a crowd of
  - 2. thousands of people
  - 3. I have sing
  - 4. 'Let It Go' before

**Q.14** Select the most appropriate option to substitute the underlined segment in the given sentence.  
Aesthetic value is specifically a way in which we can get positive conclude value from the world at large.

- Ans**
- 1. can get positive convalescent value
  - 2. can get positive convulsive value
  - 3. can get positive conclusive value
  - 4. can get positive contrastive value

**Q.15** Select the correctly spelt word to fill in the blank.

My grandmother \_\_\_\_\_ the preparation of every festival celebration in my house.

- Ans**
- 1. initiates
  - 2. inetiates
  - 3. enitiates
  - 4. enetiates

**Q.16** In the question, four alternatives are given for the underlined word in the sentence. Choose the alternative which best expresses the opposite meaning of the word.

It was as if the newer hybrids had an insatiable appetite for chemicals.

- Ans**
- 1. Satisfiable
  - 2. Urgent
  - 3. Curbed
  - 4. Pressing

**Q.17** Identify the most appropriate ANTONYM of the underlined word in the given sentence.

Lady Stranleigh continued to smile at him brilliantly.

- Ans**
- 1. Brightly
  - 2. Dimly
  - 3. Cunningly
  - 4. Strangely

**Q.18** Select the correct spelling of the underlined word in the sentence.

Can you please come back to reality from the fectitious world you live in?

- Ans**
- 1. factitious
  - 2. fractional
  - 3. factional
  - 4. fictitious

**Q.19** Select the most appropriate ANTONYM of the given word.

Purify

- Ans**
- 1. Chant
  - 2. Invite
  - 3. Pollute
  - 4. Wash

**Q.20** Select the option that expresses the given sentence in active voice.

Trigonometry has been taught by him for donkey's years.

- Ans**
- 1. He had been teaching trigonometry for donkey's years.
  - 2. He has been trigonometry teaching for donkey's years.
  - 3. He is teaching trigonometry for donkey's years.
  - 4. He has been teaching trigonometry for donkey's years.

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music is perhaps the most popular and widely practised (1)\_\_\_\_\_ of fine arts, transcending all kinds of cultural and linguistic barriers. Any form of fine art is (2)\_\_\_\_\_ to master and almost impossible to perfect, and music is no exception.

Nature, it is learnt, has blessed almost two-thirds of the human race with musical ability of some sort. Music has the power to (3)\_\_\_\_\_ out the deepest emotions. In fact, it is a magic medicine, and many seek refuge in it when they are depressed or stressed. It is this intimacy that makes us listen to music (4)\_\_\_\_\_ even hum or sing sometimes. This singing, or realistically speaking, expressing one's emotion musically sometimes takes a serious turn.

The desire to sing before an audience is innocent and beautiful, and indeed, it is perfectly alright to have such a genuine desire. But it is also important to understand that singing is an (5)\_\_\_\_\_ art—a highly refined one at that, which requires systematic, prolonged and strict training to be acceptable.

**SubQuestion No : 21****Q.21 Choose the most appropriate option to fill in blank no. 1.**

- Ans**
- 1. format
  - 2. substance
  - 3. form
  - 4. design

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music is perhaps the most popular and widely practised (1)\_\_\_\_\_ of fine arts, transcending all kinds of cultural and linguistic barriers. Any form of fine art is (2)\_\_\_\_\_ to master and almost impossible to perfect, and music is no exception.

Nature, it is learnt, has blessed almost two-thirds of the human race with musical ability of some sort. Music has the power to (3)\_\_\_\_\_ out the deepest emotions. In fact, it is a magic medicine, and many seek refuge in it when they are depressed or stressed. It is this intimacy that makes us listen to music (4)\_\_\_\_\_ even hum or sing sometimes. This singing, or realistically speaking, expressing one's emotion musically sometimes takes a serious turn.

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**SubQuestion No : 22****Q.22 Choose the most appropriate option to fill in blank no. 2.**

- Ans**
- 1. difficult
  - 2. irksome
  - 3. serious
  - 4. easy

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music is perhaps the most popular and widely practised (1)\_\_\_\_\_ of fine arts, transcending all kinds of cultural and linguistic barriers. Any form of fine art is (2)\_\_\_\_\_ to master and almost impossible to perfect, and music is no exception.

Nature, it is learnt, has blessed almost two-thirds of the human race with musical ability of some sort. Music has the power to (3)\_\_\_\_\_ out the deepest emotions. In fact, it is a magic medicine, and many seek refuge in it when they are depressed or stressed. It is this intimacy that makes us listen to music (4)\_\_\_\_\_ even hum or sing sometimes. This singing, or realistically speaking, expressing one's emotion musically sometimes takes a serious turn.

The desire to sing before an audience is innocent and beautiful, and indeed, it is perfectly alright to have such a genuine desire. But it is also important to understand that singing is an (5)\_\_\_\_\_ art—a highly refined one at that, which requires systematic, prolonged and strict training to be acceptable.

**SubQuestion No : 23****Q.23 Choose the most appropriate option to fill in blank no. 3.**

- Ans**
- 1. bring
  - 2. catalyse
  - 3. yield
  - 4. effect

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music is perhaps the most popular and widely practised (1)\_\_\_\_\_ of fine arts, transcending all kinds of cultural and linguistic barriers. Any form of fine art is (2)\_\_\_\_\_ to master and almost impossible to perfect, and music is no exception.

Nature, it is learnt, has blessed almost two-thirds of the human race with musical ability of some sort. Music has the power to (3)\_\_\_\_\_ out the deepest emotions. In fact, it is a magic medicine, and many seek refuge in it when they are depressed or stressed. It is this intimacy that makes us listen to music (4)\_\_\_\_\_ even hum or sing sometimes. This singing, or realistically speaking, expressing one's emotion musically sometimes takes a serious turn.

The desire to sing before an audience is innocent and beautiful, and indeed, it is perfectly alright to have such a genuine desire. But it is also important to understand that singing is an (5)\_\_\_\_\_ art—a highly refined one at that, which requires systematic, prolonged and strict training to be acceptable.

**SubQuestion No : 24**

**Q.24** Choose the most appropriate option to fill in blank no. 4.

- Ans**
- 1. or
  - 2. neither
  - 3. nor
  - 4. either

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music is perhaps the most popular and widely practised (1)\_\_\_\_\_ of fine arts, transcending all kinds of cultural and linguistic barriers. Any form of fine art is (2)\_\_\_\_\_ to master and almost impossible to perfect, and music is no exception.

Nature, it is learnt, has blessed almost two-thirds of the human race with musical ability of some sort. Music has the power to (3)\_\_\_\_\_ out the deepest emotions. In fact, it is a magic medicine, and many seek refuge in it when they are depressed or stressed. It is this intimacy that makes us listen to music (4)\_\_\_\_\_ even hum or sing sometimes. This singing, or realistically speaking, expressing one's emotion musically sometimes takes a serious turn.

The desire to sing before an audience is innocent and beautiful, and indeed, it is perfectly alright to have such a genuine desire. But it is also important to understand that singing is an (5)\_\_\_\_\_ art—a highly refined one at that, which requires systematic, prolonged and strict training to be acceptable.

**SubQuestion No : 25**

**Q.25** Choose the most appropriate option to fill in blank no. 5.

- Ans**
- 1. uncomplicated
  - 2. uniform
  - 3. mixed
  - 4. intricate

## Combined Graduate Level Examination 2024 Tier I

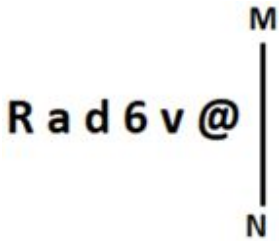
Exam Date	23/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** In a certain code language, 'WJSL' is coded as '25-12-21-14' and 'DUOH' is coded as '6-23-17-10'. What is the code for 'PFKR' in the given language?

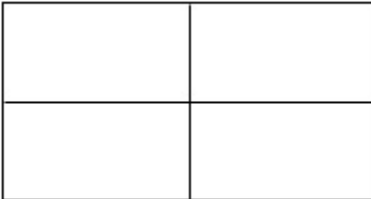
- Ans**
- 1. 20-10-14-21
  - 2. 20-9-12-20
  - 3. 19-9-12-19
  - 4. 18-8-13-20

**Q.2** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans**
- 1. @vəbєЯ
  - 2. @vəbєR
  - 3. @лəbєЯ
  - 4. @vədєЯ

**Q.3** How many rectangles are there in the given figure?



- Ans**
- 1. 9
  - 2. 6
  - 3. 4
  - 4. 8

**Q.4** The question contains pairs of words that are related to each other in a certain way. Three of the following four word pairs are alike as these have the same relationship and thus form a group. Which word pair is the one that DOES NOT belong to that group?

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

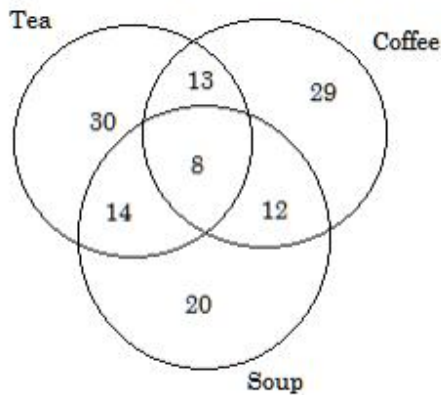
- Ans**
- 1. Chess – 1 player in a team
  - 2. Polo – 4 players in a team
  - 3. Boxing – 1 player in a team
  - 4. Football – 10 players in a team

**Q.5** Select the combination of letters that when sequentially placed in the blanks of the given series will logically complete the series.

ME\_ICM\_DIC\_GDI\_MHD\_C

- Ans**
- 1. DEMA I
  - 2. DCFMI
  - 3. DFMBI
  - 4. DFMCI

**Q.6** The following Venn diagram shows people's liking for Tea, Coffee and Soup.



How many people like tea and coffee both?

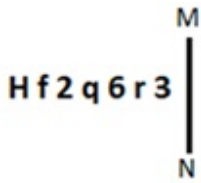
- Ans**
- 1. 43
  - 2. 29
  - 3. 21
  - 4. 13

**Q.7** Select the number from among the given options that can replace the question mark (?) in the following series.  
45, 52, 63, 76, 93, ?

- Ans**
- 1. 112
  - 2. 122
  - 3. 118
  - 4. 116



Q.8 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans
- 1.  $\text{Hf2q6r3}$
  - 2.  $\text{Hf2q6r3}$
  - 3.  $\text{Hf2q6r3}$
  - 4.  $\text{Hf2q6r3}$

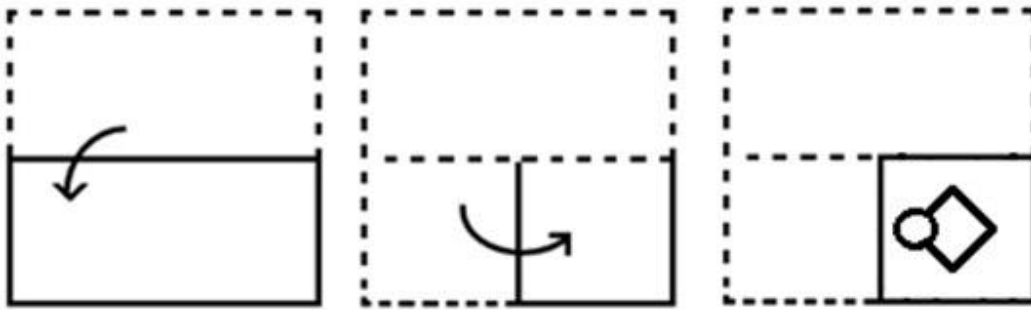
Q.9 Three of the following number-pairs are alike in some manner and hence form a group. Which number-pair does not belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 17 – 306
  - 2. 21 – 462
  - 3. 14 – 196
  - 4. 12 – 156

KD JOB UPDATES

Q.10 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans

- ✓ 1.
- ✗ 2.
- ✗ 3.
- ✗ 4.

Q.11 13 is related to 21 following certain logic. Following the same logic, 35 is related to 43. To which of the following numbers is 66 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- ✗ 1. 71
- ✗ 2. 72
- ✓ 3. 74
- ✗ 4. 73

Q.12 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
MSD: NHW :: OAE : LZV :: NIP:?

- Ans
- 1. NSL
  - 2. MRK
  - 3. MQK
  - 4. NRL

Q.13 Which figure should replace the question mark (?) if the following series were to be continued?

▽ ↑	↑ ▽	▽ B	B ▽	
D X C	B D Z	↑ C D	Z ↑ X	?
Z B	C X	X Z	D C	

Ans

1.

▽ C
X Z ↑
B D

2.

D B
X Z ↑
C ▽

3.

▽ Z
B D ↑
C X

4.

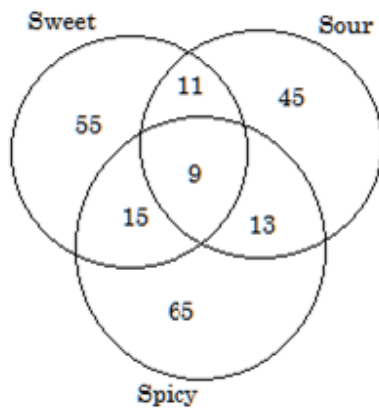
▽ Z
B X C
↑ D

Q.14 In a certain code language,  
'A & B' means 'A is the brother of B',  
'A x B' means 'A is the father of B',  
'A ? B' means 'A is the mother of B' and  
'A ! B' means 'A is the wife of B'.  
Which of the following means that W is the mother's mother of P?

- Ans
- 1. W ? R ! Y & O x P
  - 2. W ? R x Y ! O & P
  - 3. W & R ! Y x O ? P
  - 4. W ! R x Y ? O & P

- Q.15 Select the set in which the numbers are related in the same way as are the numbers of the given sets.  
(6, 31) (10, 91)  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
- Ans  1. (8, 57)  
 2. (12, 146)  
 3. (7, 68)  
 4. (9, 81)

- Q.16 How many people like either only spicy or only sweet as per the given Venn diagram?



- Ans  1. 110  
 2. 120  
 3. 135  
 4. 144

- Q.17 The position(s) of how many letters will remain unchanged if all the letters in the word 'LAUNDER' are arranged in English alphabetical order?

- Ans  1. None  
 2. One  
 3. Two  
 4. Three

- Q.18 Select the option that is related to the fifth letter cluster in the same way as the second letter cluster is related to the first letter cluster and the fourth letter cluster is related to the third letter cluster.  
EXPENSE : EPXEESN :: FASHION : HSAFNOI :: FORTUNE : ?

- Ans  1. TUNEFOR  
 2. ROFNUTE  
 3. ENUTROF  
 4. TROFENU

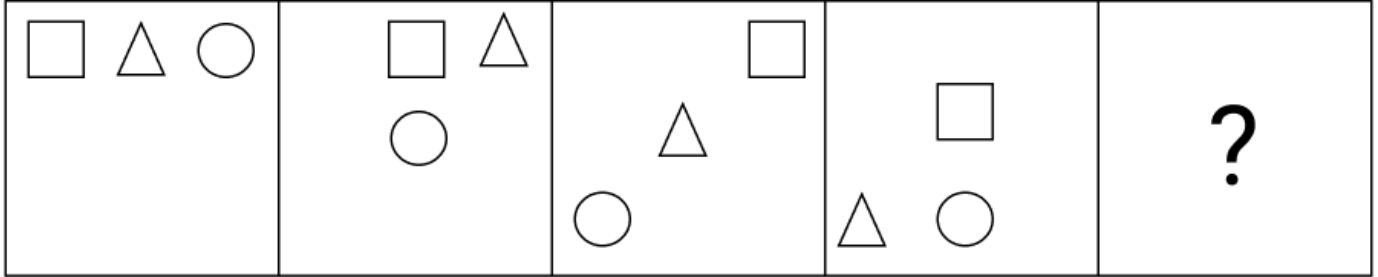
- Q.19 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
152 ÷ 6 + 1617 × 7 - 77 = ?

- Ans  1. 587  
 2. 578  
 3. 758  
 4. 785

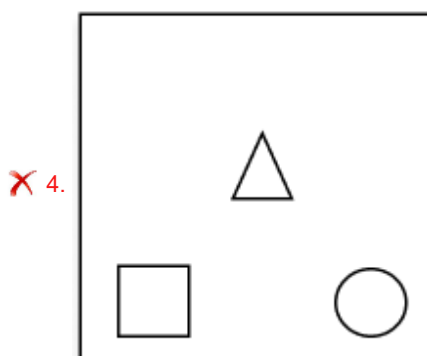
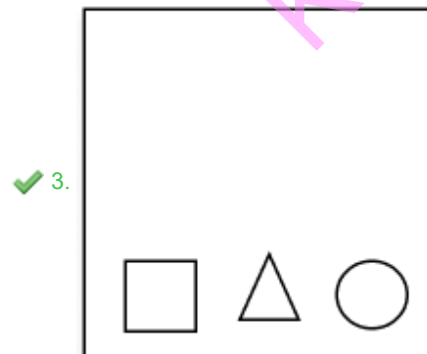
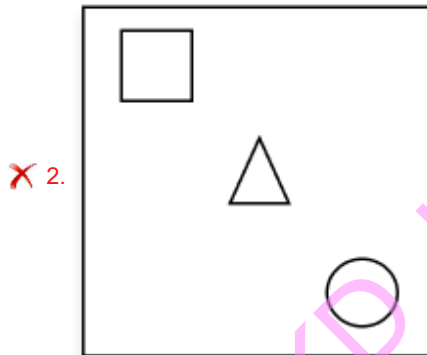
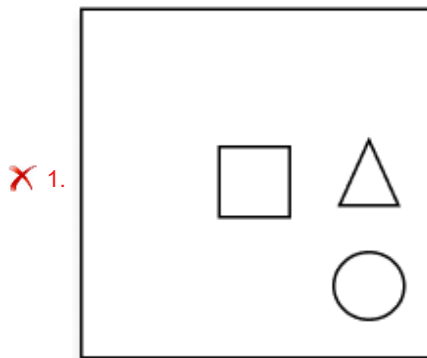
Q.20 21 is related to 220 by certain logic. Following the same logic, 72 is related to 781. To which of the following is 27 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 290
  - 2. 286
  - 3. 340
  - 4. 316

Q.21 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



Ans



Q.22 In a certain code language, 'cat dog monkey' is coded as '55 66 88'; 'camel cat donkey' is coded as '66 99 33' and 'dog goat tiger' is coded as '88 11 22'. How is 'monkey' coded in that language?

- Ans
- 1. 11
  - 2. 66
  - 3. 55
  - 4. 88

Q.23 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

\_ Y R W I Y \_ X I \_ R \_ I Y R Z

- Ans
- 1. XRY Y
  - 2. IRZY
  - 3. IRYY
  - 4. IYYX

Q.24 Six letters O, Z, F, T, R and M are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to Z.



- Ans
- 1. T
  - 2. F
  - 3. R
  - 4. M

Q.25 Which two numbers (not digits) should be interchanged to make the given equation correct?  
 $6 \times 3 + 8 \div 2 + 21 + 5 \times 4 - 14 \div 7 = 53$

- Ans
- 1. 8 and 4
  - 2. 3 and 5
  - 3. 2 and 4
  - 4. 21 and 14

#### Section : General Awareness

Q.1 Which famous experiment was done by Michael Faraday in 1831?

- Ans
- 1. Discovery of quantum magnetometers
  - 2. Discovery of law of elasticity
  - 3. Discovery of electromagnetic induction
  - 4. Discovery of natural radioactivity

Q.2 The book 'Poverty and Un-British Rule in India' was written by \_\_\_\_\_.

- Ans
- 1. MN Roy
  - 2. Dadabhai Naoroji
  - 3. Bipin Chandra Pal
  - 4. Lala Lajpat Rai

Q.3 Who reconciled Dalton's atomic hypothesis with Gay-Lussac's results on the combination of volumes in 1811?

- Ans
- 1. Robert Boyle
  - 2. Amadeo Avogadro
  - 3. Fred Hoyle
  - 4. Jacques Charles

**Q.4** Who was the chief coordinator for the G20 summit hosted by India?

- Ans**
- 1. S Jaishankar
  - 2. Vijay Gokhale
  - 3. Vinay Kwatra
  - 4. Harsh Vardhan Shringla

**Q.5** The number of ministers, including the Chief Minister, in a state shall NOT be less than \_\_\_\_\_.

- Ans**
- 1. 11
  - 2. 10
  - 3. 13
  - 4. 12

**Q.6** Who among the following founded the Pala dynasty in 8<sup>th</sup> Century CE?

- Ans**
- 1. Dharmapala
  - 2. Ramapala
  - 3. Devapala
  - 4. Gopala

**Q.7** \_\_\_\_\_ Directive principles of State Policy were added to the Indian Constitution by the 42nd Constitutional Amendment Act of 1976.

- Ans**
- 1. Two
  - 2. Three
  - 3. Five
  - 4. Four

**Q.8** Who published the logistic equation model of population growth in 1838?

- Ans**
- 1. Howard Thomas Odum
  - 2. Alfred Russel Wallace
  - 3. Pierre François Verhulst
  - 4. George Evelyn Hutchinson

**Q.9** The ICAR – Sugarcane Breeding Institute is located at:

- Ans**
- 1. Vellore
  - 2. Coimbatore
  - 3. Tirunelveli
  - 4. Cuddalore

**Q.10** Who assumed charge as the new Vice Chief of the Indian Navy on 31 July 2021?

- Ans**
- 1. Karambir Singh
  - 2. Ravneet Singh
  - 3. SN Ghormade
  - 4. Dinesh K Tripathi

**Q.11** Which Act was passed by the British Parliament in the year 1773 AD to regulate the activities of the East India Company?

- Ans**
- 1. Pitt's India Act
  - 2. Indian Slavery Act
  - 3. Age of Consent Act
  - 4. Regulating Act

Q.12

Match the following items.

List I

List II

- |  |         |
|--|---------|
| i. Kasturba Gandhi Balika Vidyalaya Scheme         | a. 1994 |
| ii. Mid-Day Meal Scheme                            | b. 2004 |
| iii. The National Accreditation Assessment Council | c. 1945 |
| iv. All India Council for Technical Education      | d. 1995 |

Ans  1. i (b), ii (d), iii (a), iv (c)

2. i (d), ii (a), iii (b), iv (c)

3. i (b), ii (c), iii (d), iv (a)

4. i (c), ii (d), iii (b), iv (a)

Q.13 Where was the first meeting of the Employment Working Group of G20 conducted?

Ans  1. Jaipur

2. Jodhpur

3. Lucknow

4. Kolkata

Q.14 As per the Census of India 2011, the increase in literacy rates for males and females, respectively, as compared to 2001 Census was:

Ans  1. 3.88% and 13.79%

2. 5.88% and 12.79%

3. 6.88% and 11.79%

4. 4.88% and 10.79%

Q.15 What is the salinity of the Dead Sea (per litre of water)?

Ans  1. 440 grams

2. 240 grams

3. 340 grams

4. 390 grams

Q.16 Papanasam Ramayya Sivan was an Indian composer of which music style?

Ans  1. Qawwali

2. Carnatic music

3. Bhajan

4. Folk music

Q.17 Which of the following is the first Indian woman Grandmaster in Chess?

Ans  1. Harika Dronavalli

2. S Vijayalakshmi

3. Tania Sachdev

4. R Vaishali

Q.18 Which of the following is NOT a major climate control of a place?

Ans  1. Altitude

2. Latitude

3. Interior of the earth

4. Ocean currents



**Q.19** Who among the following is known as 'Captain Cool' in Indian Cricket?

- Ans**
- 1. Virat Kohli
  - 2. Mahendra Singh Dhoni
  - 3. Kapil Dev
  - 4. Sachin Tendulkar

**Q.20** In which of the following states is the Chu-Faat dance performed?

- Ans**
- 1. Haryana
  - 2. Uttarakhand
  - 3. West Bengal
  - 4. Sikkim

**Q.21** Digestion of food is an important function of the animal body. In animals like lions, cows, humans, etc., the process involves use of various organs starting from the mouth and ending with the anus. The longest part of this canal is known as the \_\_\_\_\_.

- Ans**
- 1. stomach
  - 2. large intestine
  - 3. oesophagus
  - 4. small intestine

**Q.22** The famous santoor player Pandit Shivkumar Sharma received the \_\_\_\_\_ in the year 1986.

- Ans**
- 1. Maharashtra Gurav Puraskar
  - 2. Sangeet Natak Akademi Award
  - 3. Sanskriti Award
  - 4. Kalidas Samman

**Q.23** Which of the following is a festival primarily celebrated in the state of Odisha?

- Ans**
- 1. Baishagu
  - 2. Chhath
  - 3. Raja Parba
  - 4. Me-Dam-Me-Phi

**Q.24** Which of the following is a difference between self-help groups (SHGs) and microfinance institutions (MFIs) in India?

- Ans**
- 1. SHGs are non-profit organisations, while MFIs are for-profit organisations.
  - 2. SHGs provide only credit, while MFIs provide a range of financial services.
  - 3. SHGs are typically small, community-based organisations, while MFIs are larger and more formal institutions.
  - 4. SHGs rely on government subsidies for funding, while MFIs rely on commercial sources of funding.

**Q.25** The Aryans lived in the land known as 'Sapta Sindhu' (Land of the Seven Rivers). Which of the following was NOT a part of it?

- Ans**
- 1. Indus
  - 2. Shipra
  - 3. Ravi
  - 4. Jhelum

Q.1 The ratio of the ages of A and B, 3 years ago, was 5 : 7. The ratio of their ages, 13 years from now, will be 9 : 11. If the present age of C is 11 years less than that of B, then the present age of C, in years, is:

- Ans
- 1. 23
  - 2. 36
  - 3. 31
  - 4. 20

Q.2 Let  $3t - \frac{1}{3t} = 3$ , then which of the following expressions has the value equal to 12?

- Ans
- 1.  $9t^2 + \frac{1}{9t^2} + 2$
  - 2.  $9t^2 + \frac{1}{9t^2} - 2$
  - 3.  $9t^2 + \frac{1}{9t^2} + 1$
  - 4.  $9t^2 + \frac{1}{9t^2}$

Q.3 Find the area of a rectangle whose length is 52m and breadth is 9m.

- Ans
- 1.  $468\text{m}^2$
  - 2.  $253\text{m}^2$
  - 3.  $625\text{m}^2$
  - 4.  $552\text{m}^2$

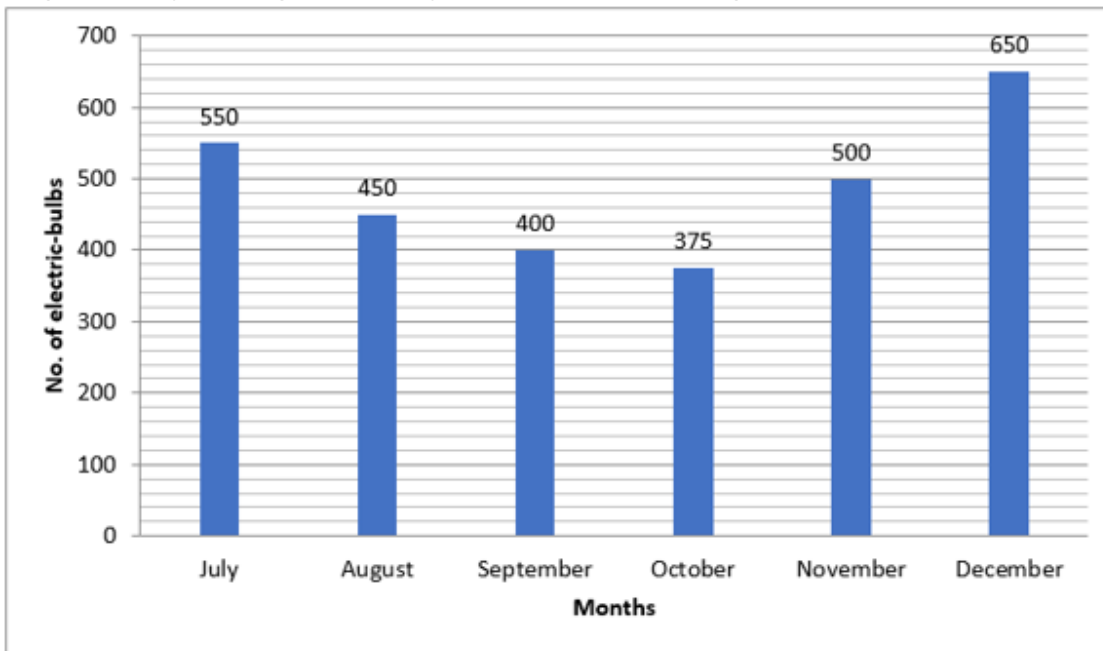
Q.4 The following table shows the number of students admitted in to a university for higher education from 2010 to 2013.

Year	Number of Students
2010	450
2011	540
2012	370
2013	680

What is the average number of students admitted in to the university from 2010 to 2013?

- Ans
- 1. 495
  - 2. 499
  - 3. 510
  - 4. 522

Q.5 The monthly production of electric bulbs by a company during the second half of the year 2021 is shown by the following bar graph. Study the bar graph carefully and answer the question given below.



What is the percentage decrement in the production of electric bulbs in October as compared to the production in July? (Correct up to two decimal places.)

- Ans
- 1. 30.28%
  - 2. 31.82%
  - 3. 29.82%
  - 4. 32.28%

Q.6 In a team of seven members, the average age of six of the members is 42 years while the age of the seventh member of the team is 36 years more than the average age of all the seven members taken together. Find the age (in years) of the seventh member of the team.

- Ans
- 1. 90
  - 2. 84
  - 3. 80
  - 4. 78

Q.7 The value of  $\frac{\sin^2\theta - 2\sin^4\theta}{2\cos^4\theta + \cos^2\theta}$  at  $\theta = 45^\circ$  is:

- Ans
- 1. 1
  - 2. 0
  - 3. 3
  - 4. 2

Q.8 The sale of two kinds of bicycles B1 and B2 (in lakhs) manufactured by a company over a period of three years are shown in the table below.

Year	B1	B2
2001	95	184
2002	130	200
2003	150	216

From 2001 to 2003, the total sale of bicycles B1 is what percent of the total sale of bicycles B2?

- Ans
- 1. 70.6%
  - 2. 68.2%
  - 3. 62.5%
  - 4. 56.7%

Q.9 A class of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 60. What is the average score of the class?

- Ans
- 1. 58.8
  - 2. 61.8
  - 3. 60.8
  - 4. 59.8

Q.10 The length of the tangent drawn from a point 10 cm away from the centre of a circle with radius 4 cm, is:

- Ans
- 1.  $3\sqrt{14}$
  - 2.  $3\sqrt{21}$
  - 3.  $2\sqrt{21}$
  - 4.  $2\sqrt{14}$

Q.11 If an employee's income is ₹72,000, the amount he spends is 40% higher than his savings. Therefore, his savings (in ₹) is:

- Ans
- 1. 30000
  - 2. 34000
  - 3. 32000
  - 4. 28000

Q.12 A customer pays ₹975 in instalments. The payment is done each month ₹5 less than the previous month. If the first instalment is ₹100, how much time will be taken to pay the entire amount?

- Ans
- 1. 14 months
  - 2. 15 months
  - 3. 27 months
  - 4. 26 months

Q.13 Find the gain percentage, given that Anubha sold her scooter for ₹31524 gaining  $\frac{1}{6}$ th of the selling price.

- Ans
- 1. 5%
  - 2. 20%
  - 3. 30%
  - 4. 35%

Q.14 If in a circle a chord of length 14 cm is at a distance of 24 cm from its centre, then the length of the radius of the circle is:

- Ans
- 1. 28 cm
  - 2. 31 cm
  - 3. 24 cm
  - 4. 25 cm

- Q.15 The following table represents the total number of students in different classes and the respective number of students who are vegetarian, in a school. Study the table carefully and answer the question that follows.

Class	Total number of students	Number of vegetarian students
XII	150	105
XI	165	100
X	125	80
IX	140	90

What is the percentage of non-vegetarian students in class XII?

- Ans
- 1. 40%
  - 2. 30%
  - 3. 35%
  - 4. 25%

- Q.16 If  $3x + 2y = 10$  and  $2xy = 7$ , then find the value of  $3x - 2y$  (if  $3x - 2y > 0$ ).

- Ans
- 1. 4
  - 2. 10
  - 3. 8
  - 4. 6

- Q.17 If each side of an equilateral triangle is  $37\sqrt{3}$  cm, then its altitude (in cm) is equal to

- Ans
- 1. 37.5
  - 2. 18.5
  - 3. 60.5
  - 4. 55.5

- Q.18 In  $\Delta PQR$ , if  $4\angle P = 5\angle Q = 20\angle R$ , then the value of  $\angle Q$  is:

- Ans
- 1.  $72^\circ$
  - 2.  $36^\circ$
  - 3.  $90^\circ$
  - 4.  $45^\circ$

- Q.19 For what value of  $t$  is the value of  $\sin^2(t)$ , half of the value of  $\tan(t)$ ?

- Ans
- 1.  $60^\circ$
  - 2.  $45^\circ$
  - 3.  $30^\circ$
  - 4.  $22.5^\circ$

Q.20 If  $\tan A = \frac{1}{\sqrt{10}}$ , A is an acute angle, then the value of  $\sin A + \operatorname{cosec} A$  is:

- Ans
- 1.  $\frac{11}{\sqrt{10}}$
  - 2.  $\frac{1}{\sqrt{10}}$
  - 3.  $\frac{12}{\sqrt{11}}$
  - 4.  $\frac{10}{\sqrt{11}}$

Q.21 Simplify the following expression  
 $0.07 \times 0.28 \div 0.04 + 0.64 - 1.64 \div 0.04$

- Ans
- 1. 38.56
  - 2. -39.87
  - 3. -46.48
  - 4. 36.78

Q.22 Two pipes A and B can fill a tank in 20 and 30 hours, respectively. Both pipes are opened to fill the tank, but when the tank is one-third full, a leak develops through which one-fourth of the water supplied by both pipes goes out. Find the total time (in hours) taken to fill the tank.

- Ans
- 1.  $14\frac{2}{3}$
  - 2. 14
  - 3.  $11\frac{2}{5}$
  - 4.  $12\frac{1}{3}$

Q.23 A boat covers a distance of 55 km downstream in 5 hours while it takes 11 hours to cover the same distance upstream. What is the speed of the boat?

- Ans
- 1. 8 km/h
  - 2. 9 km/h
  - 3. 11 km/h
  - 4. 7 km/h

Q.24 The single discount equivalent to a series discount of 60%, 70% and 80%.

- Ans
- 1. 97.6%
  - 2. 70%
  - 3. 85%
  - 4. 95.5%

Q.25 The number 4,29,714 is divisible by:

- Ans
- 1. 3 and 5
  - 2. 6 and 5
  - 3. 4 and 6
  - 4. 3 and 6

**Q.1** Select the most appropriate meaning of the underlined idiom in the following sentence.  
Sejal visits the nearby temple off and on.

- Ans**
- 1. Periodically
  - 2. Constantly
  - 3. Continuously
  - 4. Regularly

**Q.2** Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct sequence to form a meaningful sentence.

(P) unlock their potential  
(Q) empowers individuals to  
(O) and shape their future  
(R) the power of education

- Ans**
- 1. QROP
  - 2. OPRQ
  - 3. RQPO
  - 4. RPOQ

**Q.3** The following sentence has been divided into four segments. Identify the segment that contains an error.  
Mr. Suman / asked me / to pack / my luggages.

- Ans**
- 1. asked me
  - 2. my luggages.
  - 3. to pack
  - 4. Mr. Suman

**Q.4** Select the option that can be used as a one-word substitute for the given group of words.

A place to park aeroplanes

- Ans**
- 1. Hanger
  - 2. Depot
  - 3. Shed
  - 4. Hangar

**Q.5** Select the option that expresses the following sentence in passive voice.

The baker baked the cake.

- Ans**
- 1. The cake was baked by the baker
  - 2. The cake had been baked by the baker.
  - 3. The baker has been baking the cake.
  - 4. The cake has been baked by the baker.

**Q.6** Select the most appropriate ANTONYM of the underlined word in the following sentence.  
The teammates made several jibes at the opponent team members during the interview.

- Ans**
- 1. Consolation
  - 2. Mockery
  - 3. Inspiration
  - 4. Contradict

**Q.7** Select the most appropriate option to substitute the underlined segment in the given sentence.  
Athens was suffering under the rule of a powerful small group that had no concern for the people's welfare.

- Ans**
- 1. a democracy
  - 2. an oligarchy
  - 3. a monarchy
  - 4. a missionary

Q.8 Select the correct spelling to fill in the blank.

I often fail to \_\_\_\_\_ remember someone's name.

- Ans
- 1. accurately
  - 2. accuratially
  - 3. acusatively
  - 4. accurately

Q.9 Select the most appropriate option that can rectify the incorrectly spelt word in the following sentence.  
I doubt that these lifts can acommodate 100 people.

- Ans
- 1. acomodate
  - 2. accomodatte
  - 3. accomodate
  - 4. accommodate

Q.10 Select the most appropriate synonym of the given word.  
Dissipate

- Ans
- 1. Glorious
  - 2. Malicious
  - 3. Haste
  - 4. Spend

Q.11 Select the sentence that is expressed in passive voice.

- Ans
- 1. I prefer tea to coffee.
  - 2. Children are participating in sand-art competition.
  - 3. She sketches beautifully.
  - 4. The consignment was delivered yesterday.

Q.12 Select the most appropriate meaning of the underlined idiom.

This year's budget is unlikely to pass as law since the president's proposed budgets typically face a jaundiced eye but this one has gotten even more scepticism.

- Ans
- 1. Jealousy
  - 2. Confidence
  - 3. Resentment
  - 4. Good will

Q.13 Select the most appropriate synonym of the given word.

Dodge

- Ans
- 1. Avoid
  - 2. Force
  - 3. Boarding
  - 4. Amount

Q.14 Select the most appropriate ANTONYM of the underlined word in the given sentence.

Her behaviour was so ostentatious that it attracted the attention of everyone in the room.

- Ans
- 1. Attractive
  - 2. Restrained
  - 3. Gentle
  - 4. Repulsive



**Q.15** Select the most appropriate ANTONYM of the underlined word.  
Her remarks were relevant to the discussion.

- Ans**
- 1. Inappropriate
  - 2. Suitable
  - 3. Introductory
  - 4. Conclusive

**Q.16** Select the option with the correct use of future tense.

- Ans**
- 1. By next December, I will have been completed six years in this home.
  - 2. By next December, I will be completed six years in this home.
  - 3. By next December, I will have complete six years in this home.
  - 4. By next December, I will have completed six years in this home.

**Q.17** Select the most appropriate option that can substitute the underlined words in the given sentence.  
Ranjith failed in all his exams as he had been addicted of social media.

- Ans**
- 1. as he had been addicted at
  - 2. as he had been addicted on
  - 3. as he had been addicted in
  - 4. as he had been addicted to

**Q.18** Select the most appropriate ANTONYM of the given word.  
Lethargic

- Ans**
- 1. Active
  - 2. Languid
  - 3. Moderate
  - 4. Angry

**Q.19** Select the option that can be used as a one-word substitute for the given group of words.  
The evening time when the sun has just set and it is almost dark.

- Ans**
- 1. Dusk
  - 2. Night
  - 3. Dawn
  - 4. Day break

**Q.20** Select the most appropriate option to substitute the underlined segment in the given sentence.  
The cynical investors believed in every word the analysts said.

- Ans**
- 1. credulous
  - 2. distrustful
  - 3. persuasive
  - 4. credible

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Human Development Index (HDI) is a summary (1) \_\_\_\_\_ of average accomplishment in important areas of human development, (2) \_\_\_\_\_ living a long and healthy life, being informed and having a good quality of living. The HDI is the geometric mean of the normalised (3) \_\_\_\_\_ for each dimension. The health component is (4) \_\_\_\_\_ by life expectancy at birth, while the education dimension is measured by the average number of years of schooling for individuals aged 25 and above, as well as the (5) \_\_\_\_\_ number of years of schooling for school-age children.

**SubQuestion No : 21**

**Q.21** Select the most appropriate answer for blank number 1.

- Ans**
- 1. regiment
  - 2. assessment
  - 3. involvement
  - 4. collect

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Human Development Index (HDI) is a summary (1) \_\_\_\_\_ of average accomplishment in important areas of human development, (2) \_\_\_\_\_ living a long and healthy life, being informed and having a good quality of living. The HDI is the geometric mean of the normalised (3) \_\_\_\_\_ for each dimension. The health component is (4) \_\_\_\_\_ by life expectancy at birth, while the education dimension is measured by the average number of years of schooling for individuals aged 25 and above, as well as the (5) \_\_\_\_\_ number of years of schooling for school-age children.

**SubQuestion No : 22****Q.22 Select the most appropriate answer for blank number 2.**

- Ans
- 1. segregating
  - 2. exaggerating
  - 3. including
  - 4. manifesting

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Human Development Index (HDI) is a summary (1) \_\_\_\_\_ of average accomplishment in important areas of human development, (2) \_\_\_\_\_ living a long and healthy life, being informed and having a good quality of living. The HDI is the geometric mean of the normalised (3) \_\_\_\_\_ for each dimension. The health component is (4) \_\_\_\_\_ by life expectancy at birth, while the education dimension is measured by the average number of years of schooling for individuals aged 25 and above, as well as the (5) \_\_\_\_\_ number of years of schooling for school-age children.

**SubQuestion No : 23****Q.23 Select the most appropriate answer for blank number 3.**

- Ans
- 1. features
  - 2. contents
  - 3. indices
  - 4. glimpses

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Human Development Index (HDI) is a summary (1) \_\_\_\_\_ of average accomplishment in important areas of human development, (2) \_\_\_\_\_ living a long and healthy life, being informed and having a good quality of living. The HDI is the geometric mean of the normalised (3) \_\_\_\_\_ for each dimension. The health component is (4) \_\_\_\_\_ by life expectancy at birth, while the education dimension is measured by the average number of years of schooling for individuals aged 25 and above, as well as the (5) \_\_\_\_\_ number of years of schooling for school-age children.

**SubQuestion No : 24****Q.24 Select the most appropriate answer for blank number 4.**

- Ans
- 1. levitated
  - 2. escaped
  - 3. triggered
  - 4. measured

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Human Development Index (HDI) is a summary (1) \_\_\_\_\_ of average accomplishment in important areas of human development, (2) \_\_\_\_\_ living a long and healthy life, being informed and having a good quality of living. The HDI is the geometric mean of the normalised (3) \_\_\_\_\_ for each dimension. The health component is (4) \_\_\_\_\_ by life expectancy at birth, while the education dimension is measured by the average number of years of schooling for individuals aged 25 and above, as well as the (5) \_\_\_\_\_ number of years of schooling for school-age children.

**SubQuestion No : 25****Q.25 Select the most appropriate answer for blank number 5.**

- Ans
- 1. accompanied
  - 2. hypnotised
  - 3. predicted
  - 4. neglected

## Combined Graduate Level Examination 2024 Tier I

Exam Date	24/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

\_TUVTR\_WU\_UXVN\_Y

- Ans
- 1. SUUP
  - 2. SUPU
  - 3. SVUP
  - 4. PSVU

**Q.2** Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All spoons are forks.  
All forks are knives.  
No knife is a spatula.

Conclusions:

I. Some knives are spoons.  
II. No fork is a spatula.  
III. Some spoons are spatulas.

- Ans
- 1. Only conclusions I and II follow
  - 2. Neither conclusion follows
  - 3. Only conclusion III follows
  - 4. Only conclusion I follows

**Q.3** Select the number from the given options to complete the series.

32, 36, 44, 56, 72, \_\_\_\_

- Ans
- 1. 92
  - 2. 90
  - 3. 98
  - 4. 80

**Q.4** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$125 \div 5 + 1809 \times 9 - 14 = ?$

- Ans
- 1. 384
  - 2. 438
  - 3. 483
  - 4. 348

**Q.5** Select the triad in which the numbers are related in the same way as are the numbers of the given triads. (8, 9, 7), (24, 13, 35)  
 (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans**  1. (17, 11, 23)  
 2. (21, 12, 32)  
 3. (11, 15, 19)  
 4. (28, 19, 56)

**Q.6** 'RX-21' is related to 'UU-11' in a certain way. In the same way, 'PM-39' is related to 'SJ-29'. To which of the following is DP-17 related, following the same logic?

- Ans**  1. GM-7  
 2. GM-10  
 3. HO-10  
 4. HN-7

**Q.7** In a certain code language, 'PUPIL' is written as '162116912' and 'PURGE' is written as '16211875'. How will 'PURSE' be written in that language?

- Ans**  1. 126118195  
 2. 162118159  
 3. 162111895  
 4. 162118195

**Q.8** Which figure should replace the question mark (?) if the following series were to be continued?

5	X	X	□	A	R	R	5	
	A		5		□		A	
□		R	R	A	5	X	X	□

- Ans**
1. 

5	X
	R
□	A
2. 

□	X
	5
A	R
3. 

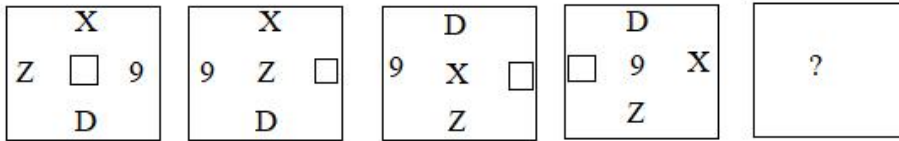
□	A
	X
5	R
4. 

□	X
	R
5	A

Q.9 What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and 'x' and '-' are interchanged?  
 $20 + 4 \div 2 \times 3 - 6 = ?$

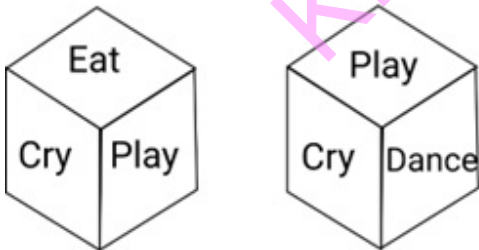
- Ans
- 1. 2
  - 2. -7
  - 3. -11
  - 4. -9

Q.10 Select the figure from among the given options that can replace the question mark (?) in the following series.



- Ans
- 1.
  - 2.
  - 3.
  - 4.

Q.11 Six words 'Eat', 'Play', 'Cry', 'Sleep', 'Dance' and 'Run' are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the word on the face opposite to 'Eat'.



- Ans
- 1. Cry
  - 2. Play
  - 3. Dance
  - 4. Sleep

Q.12 The position of how many letters will remain unchanged if each of the letters in the word 'DELIGHT' is arranged in the English alphabetical order?

- Ans
- 1. One
  - 2. None
  - 3. Two
  - 4. Three

**Q.13** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

Some Mirrors are Decoratives.

No Decorative is a Plant.

All Plants are Trees.

**Conclusions:**

(I) Some Mirrors are Plants.

(II) Some Decoratives are Trees.

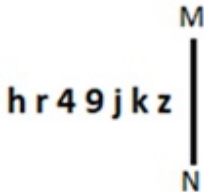
**Ans**  1. Only conclusion (II) follows.

2. Both conclusions (I) and (II) follow.

3. Only conclusion (I) follows.

4. Neither conclusion (I) nor (II) follows.

**Q.14** Select the correct mirror image of the given figure when the mirror is placed at MN.



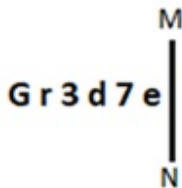
**Ans**  1. zkj64rkz

2. zkj64rkz

3. zkj64rkz

4. zkj64rkz

**Q.15** Select the correct mirror image of the given figure when the mirror is placed at MN.



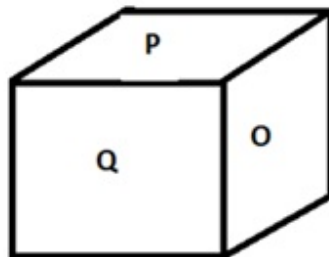
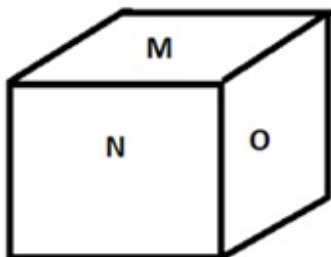
**Ans**  1. e7p3r0

2. e7p3r0

3. e7p3r0

4. e7p3r0

**Q.16** Six letters M, N, O, P, Q and R are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to O.



**Ans**  1. R

2. M

3. Q

4. P

Q.17 In a certain code language, 'LIGHT' is coded as '25709' and 'SIGHT' is coded as '97065'. What is the code for 'S' in that language?

- Ans
- 1. 7
  - 2. 6
  - 3. 0
  - 4. 2

Q.18 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

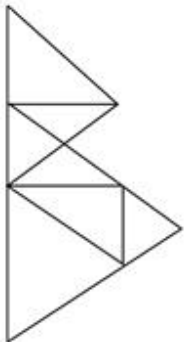
- Ans
- 1.  $12 - 122 - 99$
  - 2.  $89 - 212 - 34$
  - 3.  $23 - 84 - 38$
  - 4.  $58 - 139 - 23$

Q.19 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

33 : 340  
48 : 490

- Ans
- 1. 31 : 279
  - 2. 44 : 460
  - 3. 63 : 640
  - 4. 27 : 270

Q.20 How many triangles are there in the figure given below?



- Ans
- 1. 12
  - 2. 11
  - 3. 13
  - 4. 10

Q.21 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
LOI: QTN :: VES:AJX :: AND: ?

- Ans
- 1. FSJ
  - 2. FTI
  - 3. FTJ
  - 4. FSI

**Q.22** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different. The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

- Ans**
- 1. CBE
  - 2. NMP
  - 3. UTW
  - 4. LKM

**Q.23** Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?  
TGO, VIN, XKM, ZML, ?

- Ans**
- 1. BOK
  - 2. XKO
  - 3. BOM
  - 4. BNN

**Q.24** 61 is related to 18 following a certain logic. Following the same logic, 213 is related to 38. To which of the following is 509 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. 66
  - 2. 78
  - 3. 64
  - 4. 72

**Q.25** If A is the sister of B, C is the daughter of A, D is the sister of A and E is the brother of C. How is D related to E?

- Ans**
- 1. Mother's father
  - 2. Mother's brother
  - 3. Mother's sister
  - 4. Mother's mother

Section : **General Awareness**

**Q.1** AR Rehman, Gulzar and \_\_\_\_\_ won the 52<sup>nd</sup> annual Grammy Award for the best motion picture song 'Jai ho'.

- Ans**
- 1. Danny Boyle
  - 2. Tanvi Shah
  - 3. Dev Patel
  - 4. Freida Pinto

**Q.2** Raziya Sultan was the first and only female ruler of the Sultanate, who ascended the throne in:

- Ans**
- 1. 1238 AD
  - 2. 1236 AD
  - 3. 1241 AD
  - 4. 1242 AD

**Q.3** By which National Waterways (NW) of India, are the delta channels of Mahanadi and Brahmani rivers and East Coast Canal connected?

- Ans**
- 1. NW 1
  - 2. NW 3
  - 3. NW 2
  - 4. NW 5



**Q.4** The Working Group under the chairmanship of \_\_\_\_\_ in the year \_\_\_\_\_ proposed a new intermediate monetary aggregate to be referred to as NM2.

- Ans**
- 1. Dr. C Rangarajan; 1996
  - 2. Dr. YV Reddy; 1998
  - 3. Dr. KV Kamath; 1995
  - 4. Dr. PK Mohanty; 1998

**Q.5** In which state of India is the Tadoba National Park located?

- Ans**
- 1. Maharashtra
  - 2. Gujarat
  - 3. Madhya Pradesh
  - 4. Kerala

**Q.6** Which fundamental duty applies to you when you see your college friends start fighting with the canteen person when he passed a few anti-religious statements?

- Ans**
- 1. To promote harmony and spirit of brotherhood
  - 2. To value and preserve the rich heritage
  - 3. To develop the scientific temper, humanism, and the spirit of inquiry
  - 4. To protect and improve our natural environment

**Q.7** When was the All India Trade Union Congress (AITUC) established?

- Ans**
- 1. 1926
  - 2. 1924
  - 3. 1928
  - 4. 1920

**Q.8** Who founded the Arya Samaj in Mumbai in 1875?

- Ans**
- 1. Swami Dayanand Saraswati
  - 2. Debendranath Tagore
  - 3. Swami Vivekanand
  - 4. Raja Ram Mohan Roy

**Q.9** By which of the following methods do red algae reproduce?

- Ans**
- 1. Grafting
  - 2. Cutting
  - 3. Micropropagation
  - 4. Fragmentation

**Q.10** Who is called the father of Local Self-Government in India?

- Ans**
- 1. Lord Cornwallis
  - 2. Lord Wellesley
  - 3. Lord Ripon
  - 4. Lord William Bentinck

**Q.11** Which of the following is NOT a physical change?

- Ans**
- 1. Heating of iron rod to red hot
  - 2. Curdling of milk
  - 3. Evaporation of diesel
  - 4. Sublimation of  $\text{NH}_4\text{Cl}$

**Q.12** Who among the following Indian cricketers were named the Wisden's cricketer of the year in the 2022 edition of the Almanack?

- Ans**
- 1. Surya Kumar Yadav and Axar Patel
  - 2. Virat Kohli and Bhuvneshwar Kumar
  - 3. Rohit Sharma and Jasprit Bumrah
  - 4. Rohit Sharma and Virat Kohli

**Q.13** Which of the following is responsible for the red colour of beetroot?

- Ans**
- 1. Curcumin
  - 2. Betanin
  - 3. Beta carotene
  - 4. Lycopene

**Q.14** According to the Census of India 2011, which group of Union Territories has the highest density of population?

- Ans**
- 1. Lakshadweep, Daman and Diu and Puducherry
  - 2. Delhi, Chandigarh and Daman and Diu
  - 3. Delhi, Chandigarh and Puducherry
  - 4. Lakshadweep, Daman and Diu and Chandigarh

**Q.15** Which Article deals with the election of the President?

- Ans**
- 1. Article 72
  - 2. Article 54
  - 3. Article 74
  - 4. Article 66

**Q.16** Identify an example of plasma as a state of matter.

- Ans**
- 1. Blood
  - 2. Dry ice
  - 3. Freon
  - 4. Neon sign bulbs

**Q.17** Classical Sarod player, Amjad Ali Khan was awarded \_\_\_\_\_ in 2001 by the Government of India.

- Ans**
- 1. Bharat Ratna
  - 2. Padma Shri
  - 3. Padma Vibhushan
  - 4. Padma Bhushan

**Q.18** Which of the following statements is correct?

- Ans**
- 1. Pond water and sea water are considered as fresh water.
  - 2. Sea water is freshwater habitat.
  - 3. Rivers and sea water are considered as fresh water.
  - 4. Rivers, creeks, lakes, ponds, and streams are all freshwater habitats.

**Q.19** Mahendravarman I who wrote Mattavilasa-prahasana is related to which of the following ruling dynasties?

- Ans**
- 1. Maitraka
  - 2. Pallava
  - 3. Pushyabhuti
  - 4. Chalukya

**Q.20** Who is considered the highest law officer of the state in India?

- Ans**
- 1. Advocate general
  - 2. Attorney general
  - 3. Chief justice of high court
  - 4. Auditor general

**Q.21** Which of the following Constitution Amendment Bills is related to the provision of modifying the list of Scheduled Caste in Tamil Nadu?

- Ans**
- 1. The Constitution (Scheduled Tribes) Order (Amendment) Bill, 2019
  - 2. The Constitution (Scheduled Tribes) Order Amendment Act, 2013
  - 3. The Constitution (Scheduled Caste) Order (Amendment) Bill, 2015
  - 4. The Constitution (Scheduled Castes) Order (Amendment) Bill, 2021

**Q.22** What is the primary benefit offered to businesses in Special Economic Zones (SEZs)?

- Ans**
- 1. Tax and duty concessions
  - 2. Guaranteed market share
  - 3. Mandatory government contracts
  - 4. Unlimited foreign investment

**Q.23** Which of the following countries will host the ICC men's Cricket World Cup in the year 2031?

- Ans**
- 1. India, Bangladesh
  - 2. India, Sri Lanka
  - 3. Sri Lanka and Pakistan
  - 4. Sri Lanka and Bangladesh

**Q.24** By what name is the festival of Makar Sankranti celebrated in Assam?

- Ans**
- 1. Pedda Padunga
  - 2. Thai Pongal
  - 3. Pongal
  - 4. Magh Bihu

**Q.25** Which of the following terms is related to football?

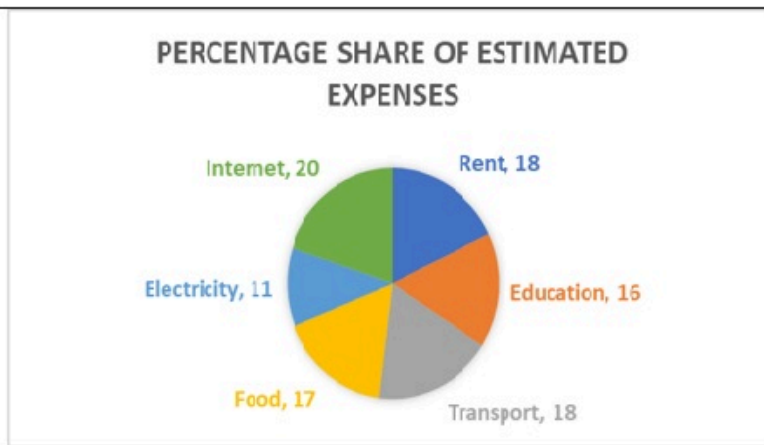
- Ans**
- 1. Third man
  - 2. Bicycle Kick
  - 3. Overs
  - 4. LBW

Section : Quantitative Aptitude

**Q.1** If  $\sec\theta = \sqrt{2}$ , then  $\operatorname{cosec}\theta$  is equal to:

- Ans**
- 1. 0
  - 2.  $\sqrt{2}$
  - 3. -1
  - 4. 1

- Q.2 The below figure shows the estimated expenses of a family whose total estimated expenditure was ₹2,50,000. Study the figure and answer the question that follows.



It was found that the actual expenditure on electricity was 10% more than the estimated expenditure, and the actual expenditure on rent was 20% less than estimated. All other expenses were same as that of the estimates. What was the total actual expenditure?

- Ans
- 1. ₹2,52,500
  - 2. ₹2,40,750
  - 3. ₹2,43,750
  - 4. ₹2,48,750

- Q.3 One pipe can fill a tank 6 times faster than another pipe. If both the pipes together can fill the tank in 40 minutes, then in how many minutes will the slower pipe alone be able to fill the tank?

- Ans
- 1. 275
  - 2. 285
  - 3. 290
  - 4. 280

- Q.4 In how much time (in years, rounded off to 2 decimal places) will ₹10,800 amount to ₹24,800 if invested at simple interest at the rate of 15.5% per annum?

- Ans
- 1. 7.72
  - 2. 8.36
  - 3. 9.54
  - 4. 6.89

- Q.5 Find the greatest value of 'k' in a 6-digit number 6745k2 such that the number is divisible by 3.

- Ans
- 1. 8
  - 2. 6
  - 3. 9
  - 4. 7

- Q.6 In an election between two candidates, 80% of the voters cast their votes, out of which 4% votes were declared invalid. A candidate got 15,360 votes which were 80% of the valid votes. Find the total number of votes.

- Ans
- 1. 20,000
  - 2. 18,000
  - 3. 25,000
  - 4. 23,000

Q.7 If  $2 \sin^2 \theta + 3 \sin \theta - 2 = 0$ , ( $0 < \theta < 90^\circ$ ), then the value of  $\theta$  is:

- Ans
- 1.  $15^\circ$
  - 2.  $30^\circ$
  - 3.  $60^\circ$
  - 4.  $45^\circ$

Q.8 If  $\sin 3A = \cos(A - 26^\circ)$ , then  $A =$  \_\_\_\_\_, where  $3A$  is an acute angle.

- Ans
- 1.  $29^\circ$
  - 2.  $52^\circ$
  - 3.  $26^\circ$
  - 4.  $78^\circ$

Q.9 Triangle XYZ is an isosceles triangle with sides  $XY = XZ$ . If the measure of angle Y is  $80^\circ$ , what is the measure of angle X?

- Ans
- 1.  $30^\circ$
  - 2.  $40^\circ$
  - 3.  $20^\circ$
  - 4.  $50^\circ$

Q.10 What conclusion can be drawn about the solution of the following system of linear equations in two variables:

$$\begin{aligned} 3x + 2y &= 7 \\ 2x + 3y &= 7 \end{aligned}$$

- Ans
- 1. No solution
  - 2. Unique solution
  - 3. Infinite solutions
  - 4. More than two solution

Q.11 The given table shows the expenditure (in crore ₹) of three companies A, B and C and the percentage profit of these companies in different years. Given that:

$$\text{Income} = \text{Expenditure} + \text{Expenditure} \times \frac{\text{Profit \%}}{100}$$

Years	Company A		Company B		Company C	
	Expenditure	Profit	Expenditure	Profit	Expenditure	Profit
2002	24	50%	20	40%	40	45%
2003	30	45%	15	25%	50	55%
2004	36	40%	25	35%	60	65%
2005	40	60%	35	48%	80	75%

What is the difference (in crore ₹) between the profits of Company A and Company B in the year 2005?

- Ans
- 1. 7.2
  - 2. 12.5
  - 3. 10.4
  - 4. 8.3

Q.12 Amit's father is aged five times more than Amit. After 6 years, he would be three and a half times of Amit's age. After further 9 years, how many times of Amit's age would he be?

Ans

1.  $2\frac{3}{4}$  times

2.  $2\frac{1}{4}$  times

3.  $3\frac{2}{7}$  times

4.  $2\frac{3}{7}$  times

Q.13 In what ratio, sugar costing ₹78 per kg be mixed with sugar costing ₹46 per kg such that by selling the mixture at ₹75 per kg there is a gain of 20%?

Ans

1. 33 : 37

2. 31 : 29

3. 37 : 31

4. 33 : 31

Q.14 A thief is spotted by a policeman from a distance of 100 m. The thief starts running and the policeman chases him. If the speed of thief and policeman are 21 km/h and 23 km/h, respectively, then how far will the thief have to run before he is over taken?

Ans

1. 1020 m

2. 1050 m

3. 1090 m

4. 1080 m

Q.15 Simplify the following expression.

$$(3x + 17 - 2y)(3x - 17 - 2y)$$

Ans

1.  $9x^2 - 12xy + 4y^2 + 289$

2.  $9x^2 + 12xy + 4y^2 - 289$

3.  $9x^2 - 12xy + 4y^2 - 289$

4.  $9x^2 - 6xy + 4y^2 - 289$

Q.16 Find the value of  $11 - \{(3 \div 4) \text{ of } 8 - 4 - 8\}$ .

Ans

1. 2

2. 3

3. 1

4. -1

Q.17 The given table shows the percentage of students passing out of college M over five years.

Years	College M
2018	68
2019	72
2020	40
2021	80
2022	92

What is the percentage increase in the number of students passing out of college M in the year 2022 as compared to the previous year?

- Ans
- 1. 10%
  - 2. 25%
  - 3. 15%
  - 4. 20%

Q.18 A, B and C invested money in a business such that 2 times A's share, 4 times B's share and 6 times C's share are all equal. If they earned ₹44,000, find the share of A.

- Ans
- 1. ₹22,000
  - 2. ₹12,000
  - 3. ₹24,000
  - 4. ₹20,000

Q.19 Study the given table and answer the question.

Year	Rice gm/day	Wheat gm/day	Pulses gm/day	Vegetables gm/day
2019	450	55	160	280
2020	430	60	150	300
2021	380	65	140	320
2022	350	70	125	400
2023	350	80	120	350

For which year is the daily consumption equal to that of another given year?

- Ans
- 1. 2019 and 2022
  - 2. 2019 and 2023
  - 3. 2021 and 2023
  - 4. 2020 and 2022

Q.20 Samreen sells a keyboard for ₹1,260 at a profit of 25%, and another keyboard for ₹1,440 at a loss of 10%. What is her total gain or loss percentage?

- Ans
- 1.  $3\frac{86}{163}\%$  Loss
  - 2.  $3\frac{11}{27}\%$  Gain
  - 3.  $3\frac{11}{27}\%$  Loss
  - 4.  $3\frac{86}{163}\%$  Gain

Q.21 The marked price of a revolving chair is ₹15,000. It is available on two successive discounts of 20% and 12%. What is its selling price (in ₹)?

- Ans
- 1. 9,560
  - 2. 10,560
  - 3. 9,230
  - 4. 10,230

Q.22 The radius of a circle is 12.5 cm and the length of one its chords is 11 cm. What is the distance of the chord from the centre? (correct to one decimal place)

- Ans
- 1. 11.2 cm
  - 2. 13.2 cm
  - 3. 10 cm
  - 4. 12 cm

Q.23 The volume of a right circular cylindrical box of radius 30cm is  $600\text{cm}^3$ . Find the height of the box.

- Ans
- 1. 0.61cm
  - 2. 0.31cm
  - 3. 0.51cm
  - 4. 0.21cm

Q.24  $\triangle ABC$  and  $\triangle PQR$  are respectively congruent.  
If  $AB = 8 = PQ$ ,  $BC = 10 = QR$  and  $\angle B = 35^\circ$ ,  
then what is the value of  $\angle P + \angle C$ ?

- Ans
- 1.  $145^\circ$
  - 2.  $130^\circ$
  - 3.  $160^\circ$
  - 4.  $120^\circ$

Q.25 PQ is the diameter of a circle with centre A. M is a point on the circumference of the circle. If  $m\angle MAP = 110^\circ$ , then find the value of  $m\angle MQA$ .

- Ans
- 1.  $55^\circ$
  - 2.  $35^\circ$
  - 3.  $65^\circ$
  - 4.  $70^\circ$

Section : English Comprehension

Q.1 Select the most appropriate ANTONYM of the underlined word in the following sentence.  
It was difficult to accommodate the avariciousness of the people.

- Ans
- 1. Generosity
  - 2. Criticism
  - 3. Hatred
  - 4. Envy

Q.2 Select the option that expresses the given sentence in passive voice.

He has written a best-selling novel.

- Ans
- 1. A best-selling novel was being written by him
  - 2. A best-selling novel has been written by him.
  - 3. A best-selling novel was written by him.
  - 4. A best-selling novel would have been written by him.



Q.3 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- P) her face
- Q) I have
- R) for a year
- S) not seen

- Ans
- 1. PQRS
  - 2. PSQR
  - 3. SPQR
  - 4. QSPR

Q.4 Select the most appropriate ANTONYM of the given word from the following sentence.

Barren

"Can you believe how much traffic there is today?", grumbled Tom, glancing at the congested road ahead.

- Ans
- 1. Believe
  - 2. Grumbled
  - 3. Glancing
  - 4. Congested

Q.5 Select the most appropriate option to substitute the underlined word segment in the given sentence.  
A herd of cattle consists of related females, cubs, and a small number of adult males.

- Ans
- 1. pride of lions
  - 2. pack of wolves
  - 3. school of fish
  - 4. flock of birds

Q.6 Select the most appropriate idiom for the given group of words.  
A time when money might unexpectedly be needed

- Ans
- 1. A rainy day
  - 2. A raw deal
  - 3. A rash of something
  - 4. A rap over the knuckles

Q.7 Select the option that can be used as a one-word substitute for the given group of words.  
A person who does not believe in God

- Ans
- 1. Amateur
  - 2. Anarchy
  - 3. Autocrat
  - 4. Atheist

Q.8 Select the INCORRECTLY spelt word..

- Ans
- 1. Measerement
  - 2. Region
  - 3. Confidential
  - 4. Strengths

Q.9 Select the most appropriate option that can substitute the underlined word in the given sentence.  
I saw a shabby looking man living in the cavity of a mountain.

- Ans
- 1. elevation
  - 2. height
  - 3. mound
  - 4. hole

**Q.10** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A.The door of the flat was ajar.

B.The taxi stopped.

C.Mr. Satterthwaite flung himself out and raced up the stone stairs to the second floor like a young athlete.

D.He pushed it open, and the great voice welcomed him.

- Ans
- 1. BACD
  - 2. ABCD
  - 3. BCAD
  - 4. DCBA

**Q.11** Select the option that expresses the given sentence in passive voice.

He wrote an inspiring speech for the event.

- Ans
- 1. An inspiring speech was being written by him for the event.
  - 2. An inspiring speech was written by him for the event.
  - 3. An inspiring speech is written by him for the event.
  - 4. An inspiring speech has been written by him for the event.

**Q.12** Select the most appropriate option that can substitute the underlined segment in the given sentence.  
It is nothing else your pride which makes you say such a thing.

- Ans
- 1. else your pride that makes
  - 2. else your pride which make
  - 3. else but your pride which make
  - 4. else but your pride which makes

**Q.13** Select the most appropriate synonym of the underlined word in the given sentence.  
This is a clear example of conflict of egos.

- Ans
- 1. clash
  - 2. mingling
  - 3. infliction
  - 4. crash

**Q.14** Select the most appropriate option that can substitute the underlined segment in the given sentence.  
Mr. Adhil called back but he wasn't able to find the scooter part he needed.

- Ans
- 1. called down but he wasn't able to
  - 2. called off but he wasn't able to
  - 3. called around but he wasn't able to
  - 4. called up to but he wasn't able to

**Q.15** Select the most appropriate meaning of the underlined idiom in the following sentence.  
Instead of confusing others, let us call a spade a spade in front of the audience.

- Ans
- 1. Pretend superiority
  - 2. Remain silent
  - 3. Speak truthfully
  - 4. Be at strife

**Q.16** Select the INCORRECTLY spelt word.

- Ans
- 1. Connoisseur
  - 2. Neccessary
  - 3. Privilege
  - 4. Dilemma

Q.17 Select the most appropriate phrasal verb to fill in the blank.

We need to \_\_\_\_\_ a solution to this problem before it gets worse.

- Ans
- 1. cut down on
  - 2. break down
  - 3. break up
  - 4. come up with

Q.18 Select the most appropriate meaning of the underlined word in the given sentence.  
This building is colossal and it can hold a village's population in it.

- Ans
- 1. very huge
  - 2. temporary
  - 3. very beautiful
  - 4. puny

Q.19 Select the most appropriate synonym of the given word.  
Maverick

- Ans
- 1. Conformist
  - 2. Orthodox
  - 3. Bohemian
  - 4. Follower

Q.20 Identify the error in the given sentence.  
Camels tend to move slowly than other domestic animals in the plains.

- Ans
- 1. domestic animals in the plains.
  - 2. than other
  - 3. move slowly
  - 4. Camels tend to

### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The mathematician Federico Ardila-Mantilla grew up in Colombia, an (1) \_\_\_\_\_ student but gifted in math. He was failing most of his classes at his high school in Bogotá when someone (2) \_\_\_\_\_ him to apply to MIT. He had not heard of the school. To his surprise, he got in, and he went on scholarship. Mathematically, he did well. One of his professors, an acid-tongued theoretician known to (3) \_\_\_\_\_ his audience to a herd of cows, routinely tucked 'open' math problems into homework assignments, without telling the students. These had never been solved by anyone. Ardila solved one. He went on to receive his bachelor's and Ph.D. in math from MIT.

But his academic experience was also one of isolation. Part of it had to do with his own (4) \_\_\_\_\_. Part of it was cultural. As a Latino, he was very much in the minority in the department, and he did not feel comfortable in American mathematical spaces. No one had tried to explicitly (5) \_\_\_\_\_ him, yet he felt alone. In math, collaborating with others opens up new kinds of learning and thinking. But in his nine years at MIT, Ardila worked with others only twice.

### SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank no. 1

- Ans
- 1. apprehensive
  - 2. apologetic
  - 3. indifferent
  - 4. excellent

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

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**SubQuestion No : 22****Q.22** Select the most appropriate option to fill in blank no. 2

- Ans
- 1. dissuaded
  - 2. suggested
  - 3. removed
  - 4. dispirited

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The mathematician Federico Ardila-Mantilla grew up in Colombia, an (1) \_\_\_\_\_ student but gifted in math. He was failing most of his classes at his high school in Bogotá when someone (2) \_\_\_\_\_ him to apply to MIT. He had not heard of the school. To his surprise, he got in, and he went on scholarship. Mathematically, he did well. One of his professors, an acid-tongued theoretician known to (3) \_\_\_\_\_ his audience to a herd of cows, routinely tucked 'open' math problems into homework assignments, without telling the students. These had never been solved by anyone. Ardila solved one. He went on to receive his bachelor's and Ph.D. in math from MIT.

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**SubQuestion No : 23****Q.23** Select the most appropriate option to fill in blank no. 3

- Ans
- 1. compare
  - 2. malign
  - 3. strangulate
  - 4. differentiate

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The mathematician Federico Ardila-Mantilla grew up in Colombia, an (1) \_\_\_\_\_ student but gifted in math. He was failing most of his classes at his high school in Bogotá when someone (2) \_\_\_\_\_ him to apply to MIT. He had not heard of the school. To his surprise, he got in, and he went on scholarship. Mathematically, he did well. One of his professors, an acid-tongued theoretician known to (3) \_\_\_\_\_ his audience to a herd of cows, routinely tucked 'open' math problems into homework assignments, without telling the students. These had never been solved by anyone. Ardila solved one. He went on to receive his bachelor's and Ph.D. in math from MIT.

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**SubQuestion No : 24****Q.24** Select the most appropriate option to fill in blank no. 4.

- Ans
- 1. introversion
  - 2. molestation
  - 3. quantification
  - 4. interrogation

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The mathematician Federico Ardila-Mantilla grew up in Colombia, an (1) \_\_\_\_\_ student but gifted in math. He was failing most of his classes at his high school in Bogotá when someone (2) \_\_\_\_\_ him to apply to MIT. He had not heard of the school. To his surprise, he got in, and he went on scholarship. Mathematically, he did well. One of his professors, an acid-tongued theoretician known to (3) \_\_\_\_\_ his audience to a herd of cows, routinely tucked 'open' math problems into homework assignments, without telling the students. These had never been solved by anyone. Ardila solved one. He went on to receive his bachelor's and Ph.D. in math from MIT.

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**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank no. 5.

- Ans**
- 1. exclude
  - 2. fabricate
  - 3. incorporate
  - 4. stratify

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

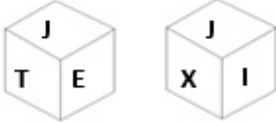
Exam Date	24/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** The position(s) of how many letters will remain unchanged if all the letters in the word 'ASTEROID' are arranged in English alphabetical order?

- Ans
- 1. Three
  - 2. None
  - 3. Two
  - 4. One

**Q.2** Six letters J, T, E, X, I and O are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to X.



- Ans
- 1. I
  - 2. E
  - 3. O
  - 4. T

**Q.3** Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $14 - 45 \times 5 + 6 \div 3 = ?$

- Ans
- 1. 3
  - 2. 6
  - 3. 5
  - 4. 4

**Q.4** Which of the following terms will replace the question mark (?) in the given series?  
HKPT, JLNS, LMLR, ?, POHP

- Ans
- 1. NNJQ
  - 2. NNKQ
  - 3. NNQJ
  - 4. NNIQ

**Q.5** In a certain code language, 'IFF' is coded as '21' and 'ARB' is coded as '21'. How will 'CAW' be coded in that language?

- Ans
- 1. 25
  - 2. 27
  - 3. 23
  - 4. 26

**Q.6** Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Scissors : Paper

- Ans**
- 1. Furnace : Water
  - 2. Axe : Wood
  - 3. Mines : Diamond
  - 4. Heater : Plastic

**Q.7** Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
(317, 202)

(438, 323)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. (402, 287)
  - 2. (424, 315)
  - 3. (415, 295)
  - 4. (391, 270)

**Q.8** Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Cessation : Beginning

- Ans**
- 1. Incredible : Magnificent
  - 2. Plutonic : Abyssal
  - 3. Enormous : Miniscule
  - 4. Obsession : Problem

**Q.9** 22 is related to 176 following a certain logic. Following the same logic, 32 is related to 256. To which of the following is 48 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans**
- 1. 374
  - 2. 384
  - 3. 380
  - 4. 370

**Q.10** In a certain code language, 'TERRAIN' is written as 'VETTAIP' and 'TRAFFIC' is written as 'VTAHHIE'. How will 'MOTOR' be written in that language?

- Ans**
- 1. OOVOT
  - 2. VOOOT
  - 3. OOTVO
  - 4. OVOTO

**Q.11** Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

LM\_O\_NPMRO\_KU\_TI

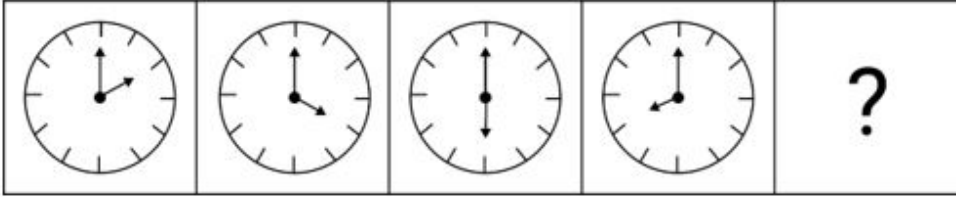
- Ans**
- 1. RPMO
  - 2. PNOR
  - 3. NORP
  - 4. NOPR

Q.12 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans
- 1. TWZ
  - 2. MPS
  - 3. DGJ
  - 4. KNP

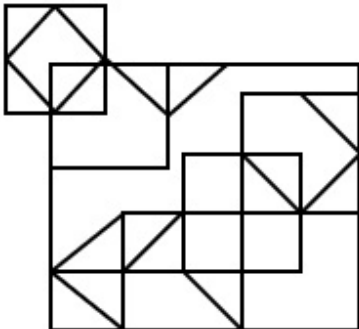
Q.13 Select the figure from among the given options that can replace the question mark (?) and logically complete the series.



Ans

- 1.
- 2.
- 3.
- 4.

Q.14 How many triangles are there in the given figure?



- Ans
- 1. 16
  - 2. 17
  - 3. 18
  - 4. 19



Q.15 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

11 : 1331

9 : 729

- Ans
- 1. 6 : 180
  - 2. 7 : 343
  - 3. 8 : 6561
  - 4. 13 : 2028

Q.16 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Pig : Piglets :: Deer : ?

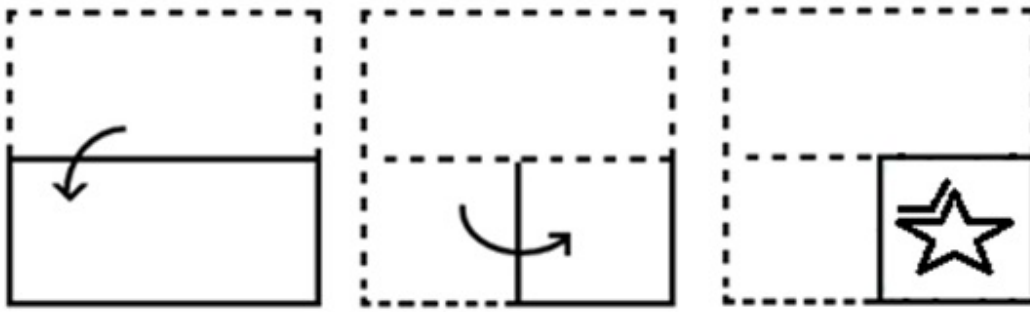
- Ans
- 1. Pup
  - 2. Foal
  - 3. Fawn
  - 4. Calf

Q.17 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

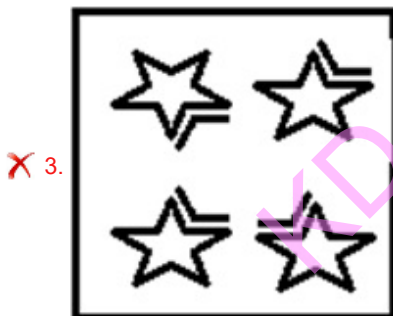
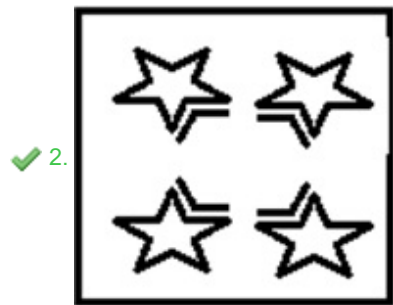


- Ans
- 1. Σ I U F Y
  - 2. Z I U F Y
  - 3. Σ I U F Y
  - 4. Z I U F Y

Q.18 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans



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Q.19 In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All necklaces are squares.

Some squares are circles.

No circle is a ring.

Conclusions:

I.No square is a ring.

II.No ring is a circle.

III.Some squares are necklaces.

- Ans  1. Only conclusions II and III follow.  
 2. Only conclusion III follows.  
 3. All the conclusions follow.  
 4. Only conclusions I and III follow.

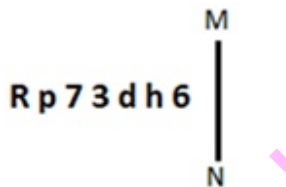
Q.20 Select the number from among the given options that can replace the question mark (?) in the following series.  
5, 10, 17, 26, 37, ?

- Ans  1. 50  
 2. 52  
 3. 60  
 4. 54

Q.21 In a certain code language,  
'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A x B' means 'A is the wife of B' and  
'A ÷ B' means 'A is the father of B'.  
Based on the above, if  $M + Q - R + K - Y$ , then how is M related to Y?

- Ans  1. Father's mother  
 2. Brother's wife  
 3. Mother's mother  
 4. Mother

Q.22 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans  1. Rp73dh6  
 2. Rb739hp  
 3. Rb73qhe  
 4. Rp73qhe

Q.23 Which two signs should be interchanged to make the following equation correct?  
 $29 \times 145 + 5 - 640 \div 15 = 216$

- Ans  1. ÷ and +  
 2. ÷ and ×  
 3. - and +  
 4. - and ×

**Q.24** The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair. (NOTE: The relation should be found without breaking down the numbers into its constituent digits)

- Ans
- ✓ 1. 18 : 306
  - ✗ 2. 25 : 650
  - ✗ 3. 23 : 552
  - ✗ 4. 13 : 182

**Q.25** Select the figure that will replace the question mark (?) in the following figure series.

○	A	8	□	A	2	6	8	
□	6	8	A	D	○	8	□	6
D	2	2	6	D	○	○	□	?

Ans

- ✗ 1. 

2	○
6	D
8	A
- ✓ 2. 

2	○
6	8
D	A
- ✗ 3. 

□	○
A	8
D	6
- ✗ 4. 

2	A
6	○
D	□

Section : General Awareness

**Q.1** Which of the following statements is INCORRECT regarding Fundamental Rights?

- Ans
- ✗ 1. Fundamental Rights can be enforced by Law.
  - ✓ 2. Fundamental rights are derived from the Britain Constitution.
  - ✗ 3. The Fundamental Rights are mentioned in constitution from article 12 to 35.
  - ✗ 4. Article 21 provides right to life.

**Q.2** Under which scheme are collateral free loans of up to ₹10 Lakh extended by the Member Lending Institutions (MLIs) in India?

- Ans
- ✗ 1. National Strategy for Financial Inclusion
  - ✓ 2. Pradhan Mantri MUDRA Yojana
  - ✗ 3. Stand Up India scheme
  - ✗ 4. Pradhan Mantri Jan Dhan Yojana

**Q.3** Which of the following festivals observed in Assam is majorly celebrated by Vaishnavites?

- Ans**
- 1. Bihu
  - 2. Doljatra
  - 3. Ambuchi Mela
  - 4. Rongker

**Q.4** Which of the following group of months is the coldest in North India?

- Ans**
- 1. February and March
  - 2. September and October
  - 3. December and January
  - 4. October and November

**Q.5** Some of the talas invented by \_\_\_\_\_ include Trimukhi, Panchamukhi, Saptamukhi and Navamukhi.

- Ans**
- 1. M Balamuralikrishna
  - 2. Hariprasad Chaurasia
  - 3. Yashraj
  - 4. Bhimsen Joshi

**Q.6** In which year was the temple entry movement started by Bhimrao Ambedkar?

- Ans**
- 1. 1935
  - 2. 1918
  - 3. 1927
  - 4. 1922

**Q.7** Who among the following dancers was the first one from the state of Odisha to be conferred the Padma Vibhushan Award?

- Ans**
- 1. Uday Shankar
  - 2. Pandit Birju Maharaj
  - 3. Kelucharan Mohapatra
  - 4. Guru Bipin Singh

**Q.8** Sankalp Gupta is associated with which of the following events?

- Ans**
- 1. Chess
  - 2. Wrestling
  - 3. Badminton
  - 4. Boxing

**Q.9** Where was the 1912 session of the India National Congress held in Bihar?

- Ans**
- 1. Sahasaram
  - 2. Gaya
  - 3. Bankipore
  - 4. Madhubani

**Q.10** Harmonium player, Tulsidas Borkar, was awarded with the \_\_\_\_\_ in 2016.

- Ans**
- 1. Padma Shri
  - 2. Padma Bhushan
  - 3. Bharat Ratna
  - 4. Padma Vibhushan

**Q.11** Which ocean is encircling the continent of Antarctica and extends northward to 60 degrees south latitude?

- Ans**
- 1. Atlantic Ocean
  - 2. Indian Ocean
  - 3. Pacific Ocean
  - 4. Southern Ocean

**Q.12** Which Article mentions the Comptroller and Auditor General of India?

- Ans**
- 1. Article 154
  - 2. Article 156
  - 3. Article 148
  - 4. Article 136

**Q.13** Who among the following is the first Indian to win gold at Junior World Weightlifting Championship in May 2022?

- Ans**
- 1. Sathish Sivalingam
  - 2. Mirabai Chanu
  - 3. Santoshi Matsa
  - 4. Harshada Sharad Garud

**Q.14** The real name of Babur, the founder of Mughal dynasty in India was:

- Ans**
- 1. Zahiruddin Muhammad
  - 2. Irfanuddin Muhammad
  - 3. Zainuddin Muhammad
  - 4. Ruknuddin Muhammad

**Q.15** About what percentage of passenger traffic is carried by roads in India?

- Ans**
- 1. 77%
  - 2. 87%
  - 3. 57%
  - 4. 67%

**Q.16** Rudranksh Patil is associated with \_\_\_\_\_.

- Ans**
- 1. badminton
  - 2. shooting
  - 3. chess
  - 4. wrestling

**Q.17** Which of the following classes includes the family of turtles?

- Ans**
- 1. Chondrichthyes
  - 2. Reptilia
  - 3. Amphibia
  - 4. Aves

**Q.18** According to the Census of India 2001, which of the following is the main reason that Indian men migrate?

- Ans**
- 1. Education
  - 2. Marriage
  - 3. Work and employment
  - 4. Business

**Q.19** Which of the following States have enacted the Cattle Preservation Act, 2021 in July-August 2021 to regulate slaughter and transport of cattle and proposed an amendment in December 2021 to allow inter-district transportation of cattle for agricultural and animal husbandry except in districts sharing international border?

- Ans**
- 1. Tripura
  - 2. Sikkim
  - 3. Arunachal Pradesh
  - 4. Assam

**Q.20** Which types of gametes are found in Spirogyra?

- Ans**
- 1. Isogamous and flagellated
  - 2. Heterogamous and non-flagellated
  - 3. Heterogamous and flagellated
  - 4. Isogamous and non-flagellated

**Q.21** The 'Make in India' initiative primarily focuses on which sector?

- Ans**
- 1. Manufacturing
  - 2. Service
  - 3. Agriculture
  - 4. Import

**Q.22** Which of the following was NOT one of the basic attributes of Ashokas' Dhamma?

- Ans**
- 1. Political unification
  - 2. Ahimsa
  - 3. Celibacy
  - 4. Secularism

**Q.23** N. Rangasamy sworn in as the Chief Minister of Puducherry in May 2021. What is the name of the party he formed?

- Ans**
- 1. Naam Tamilar Katchi
  - 2. All India NR Congress
  - 3. Amma Makkal Munnettra Kazagam
  - 4. Viduthalai Chiruthaigal Katchi

**Q.24** Identify the INCORRECT pair regarding motion and their examples?

- Ans**
- 1. Translatory motion – A ball falling from the cliff
  - 2. Periodic motion – Hands of a clock
  - 3. Oscillatory motion – Earth moving around the sun
  - 4. Rotatory motion – blades of a fan

**Q.25** Which gas is evolved when iron and water react?

- Ans**
- 1. Hydrogen
  - 2. Oxygen
  - 3. Ammonia
  - 4. Methane

Q.1 The table shows the sales (in units) of a company for different cities in the months of June and July, 2022. Study the table and answer the question that follows.

City	June	July
Delhi	252	332
Mumbai	325	248
Chennai	362	247
Kolkata	245	195
Pune	218	284

What is the difference between Delhi's sales for the month of June and Chennai's sales for the month of July?

- Ans
- 1. 5
  - 2. 155
  - 3. 80
  - 4. 30

Q.2 The following table gives zone wise survey report of the people of a country who take tea. Study the table and answer the question.

Take tea	Zone			
	East	West	North	South
More than 3 times a day	1732	1842	6045	2741
1 to 3 times a day	1462	2328	2584	4264
Twice a week	2280	2529	1123	3598
Only once a week	4059	1874	3169	7051
Never	317	127	223	293

The ratio of the total number of people surveyed who take tea more than 3 times a day to the number of people who do not take tea at all is

- Ans
- 1. 103 : 8
  - 2. 8 : 103
  - 3. 101 : 5
  - 4. 5 : 107



- Q.3** Study the given table and answer the question that follows.  
The total money spent in advertisement (in ₹) and total number of advertisements in different newspapers given by a company for five years (2018 to 2022) is given in the below table.

Year	Total Money Spent in ₹ in Advertisement			Total No of Advertisements		
	NY Times	The Telegraph	Others	NY Times	The Telegraph	Others
2018	3,50,000	3,60,000	2,10,000	10	12	15
2019	4,80,000	3,45,000	2,89,000	12	15	17
2020	6,15,000	4,00,000	5,76,000	15	20	36
2021	7,60,000	4,80,000	4,40,000	19	24	22
2022	14,00,000	3,50,000	3,09,000	38	18	30

What is the ratio of the money spent on each of the advertisements taken one from each of NY times, The Telegraph and Others for the year 2021 to that of the money spent on each of the advertisements taken one from each of NY times, The Telegraph and Others for the year 2018?

- Ans**  1. 80 : 79  
 2. 80 : 71  
 3. 71 : 80  
 4. 79 : 80

- Q.4** The radii of two circles are 8 cm and 15 cm. The perimeter of the circle having area equal to the sum of the areas of the two circles (in cm) is:

- Ans**  1.  $32\pi$   
 2.  $30\pi$   
 3.  $28\pi$   
 4.  $34\pi$

- Q.5** Ghanshyam is thrice as old as Akash. 10 years ago, Ghanshyam was four times as old as Akash. What is the difference between their current ages (in years)?

- Ans**  1. 65  
 2. 50  
 3. 55  
 4. 60

- Q.6** If  $\tan A + \cot A = 2$ , then the value of  $\tan^2 A + \cot^2 A$  is:

- Ans**  1. 16  
 2. 2  
 3. 8  
 4. 4

Q.7 The value of  $(\sin A + \operatorname{cosec} A)^2 + (\cos A + \sec A)^2$  is:

- Ans
- 1.  $3 + \tan^2 A + \cot^2 A$
  - 2.  $7 + \tan^2 A + \cot^2 A$
  - 3.  $5 + \tan^2 A + \cot^2 A$
  - 4.  $1 + \tan^2 A + \cot^2 A$

Q.8 Find the value of  $\frac{(453 \times 453 \times 453 - 383 \times 383 \times 383)}{(453 \times 383 + 383 \times 383 + 453 \times 453)}$ .

- Ans
- 1. 60
  - 2. 50
  - 3. 80
  - 4. 70

Q.9 An article is sold for ₹747 after successive discounts of 17% and x%. If the marked price of the article is ₹1,600, what is the value of x?

- Ans
- 1. 32.26
  - 2. 43.75
  - 3. 22.12
  - 4. 40.28

Q.10 Two goods trains 132 m and 108 m in length are running towards each other on parallel tracks. The first train is running at a speed of 32 km/h and the second at a speed of 40 km/h. How much time will they take to cross each other after meeting?

- Ans
- 1. 12 s
  - 2. 10 s
  - 3. 13 s
  - 4. 15 s

Q.11 On dividing a number by 55, we get 28 as the remainder. On dividing the same number by 11, what is the remainder?

- Ans
- 1. 5
  - 2. 8
  - 3. 7
  - 4. 6

Q.12 Vipul spends 30% of his monthly income on rent, 60% of the remaining on groceries, and 40% of the remaining on others. If he saves ₹ 7056 in a month, then how much (in ₹) does he spend on groceries?

- Ans
- 1. 18323
  - 2. 15230
  - 3. 17640
  - 4. 22386

Q.13 A man buys 10 kg of wheat at a rate of ₹26/kg. The wheat is mixed with 6 kg of other good quality of wheat to get a mixture at a price of ₹35/kg. The price of good quality wheat per kg (in ₹) is:

- Ans
- 1. 38
  - 2. 42
  - 3. 50
  - 4. 46

Q.14 What is the length (in cm) of each side of a cube if the volume of a cube is  $13,824 \text{ cm}^3$ ?

Ans  1. 20.4

2. 24

3. 22

4. 34

Q.15 Study the given bar graph and answer the question that follows.

The following bar graph shows the higher secondary students of a school for the years 2008, 2009 and 2010.



What was the percentage of students who passed in the first division in 2009?

Ans  1.  $16\frac{13}{19}\%$

2.  $15\frac{15}{19}\%$

3.  $16\frac{15}{19}\%$

4.  $15\frac{13}{19}\%$

Q.16 Pipe A takes  $\frac{4}{5}$  of the time required by pipe B to fill an empty tank individually.

When an outlet pipe C is also opened simultaneously with pipes A and B, it takes  $\frac{4}{5}$  more time to fill the empty tank than it takes when only pipe A and pipe B are opened together. If it takes 40 hours to fill the tank when all the three pipes are opened simultaneously, in what time (in hours) will pipe C empty the full tank, operating alone?

Ans  1. 50

2. 45

3. 65

4. 75

Q.17 If the mean proportional between p and q is 12, then the possible values of p and q, respectively, are:

- Ans
- 1. 3, 38
  - 2. 3, 28
  - 3. 24, 6
  - 4. 24, 16

Q.18 The radii of two concentric circles are 26 cm and 10 cm. If the chord of the greater circle is a tangent to the smaller circle, then find the length of that chord.

- Ans
- 1. 38.7 cm
  - 2. 28.7 cm
  - 3. 48 cm
  - 4. 28 cm

Q.19 A person purchased a table and a sofa for ₹28,000. He sold the sofa at a profit of 10% and the table at a profit 15.25%. If his total profit was 13%, then the difference between the cost price of the sofa and the table (in ₹) is:

- Ans
- 1. 1500
  - 2. 4000
  - 3. 5000
  - 4. 2500

Q.20 If  $3 \tan A = 4$  and A is an acute angle, then the value of  $4\sin A + 3\cos A$  is:

- Ans
- 1. 1
  - 2. 3
  - 3. 4
  - 4. 5

Q.21 A cell phone is available for Rs.600 or for Rs.300 cash down payment together with Rs.360 to be paid after two months. Find the rate of interest charged under this scheme.

- Ans
- 1. 60%
  - 2. 120%
  - 3. 20%
  - 4. 50%

Q.22 Let C be a circle with centre O and PQ be a minor arc on C. Let R and S be two points on the major arc of PQ on C. If PQ subtends an angle  $80^\circ$  at O, find  $\angle PRQ$  and  $\angle PSQ$ , respectively.

- Ans
- 1.  $40^\circ$  and  $60^\circ$
  - 2.  $50^\circ$  and  $80^\circ$
  - 3.  $40^\circ$  and  $40^\circ$
  - 4.  $40^\circ$  and  $50^\circ$

Q.23 For what value of K does the following system have an infinite number of solutions?

$$x + 2Ky - 8 = 0$$

$$2x - y - 16 = 0$$

- Ans
- 1. 4
  - 2.  $-\frac{1}{4}$
  - 3. 2
  - 4.  $-\frac{1}{2}$

Q.24 In  $\triangle DEF$ ,  $DE = 12$  cm,  $EF = 15$  cm, and  $\angle DEF = 90^\circ$ .  $\triangle DEF$  is congruent to  $\triangle XYZ$ . If  $YZ = 15$  cm, then what is the length of  $XZ$ ?

- Ans
- 1.  $3\sqrt{41}$  cm
  - 2.  $2\sqrt{41}$  cm
  - 3.  $5\sqrt{41}$  cm
  - 4.  $4\sqrt{41}$  cm

Q.25 Simplify the following expression.

$$133 \div 19 \times 3 - 48 \times 2 \div 24 + 841 \div \{ \overline{45 - 16} \}$$

- Ans
- 1. 46
  - 2. 21
  - 3. 12
  - 4. 42

Section : English Comprehension

Q.1 Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct logical sequence to form a meaningful and coherent paragraph.

- a. It regulates the operation of all body organs and protects the body and mind from becoming unbalanced as a result of negative circumstances and unhealthy lifestyles.
- b. It only requires frequent practice of the proper body motions and breathing techniques.
- c. The physical benefits of yoga can be enjoyed for a lifetime without risk or injury.
- d. It regulates the relationship between the body, the intellect, and the spirit.

- Ans
- 1. d, a, b, c
  - 2. c, b, d, a
  - 3. b, a, c, d
  - 4. a, b, c, d

Q.2 Select the most appropriate meaning of the underlined word.  
At times, David behaves in a very obdurate manner to kids.

- Ans
- 1. trusting
  - 2. amiable
  - 3. obstinate
  - 4. envious

Q.3 Select the most appropriate meaning of the underlined idiom in the following sentence.  
Rahul won the extempore competition. He is lucky to be blessed with the gift of the gab.

- Ans
- 1. An honest person
  - 2. A big surprise
  - 3. A lucky person
  - 4. A talent for speaking

Q.4 Select the most appropriate option to substitute the underlined segment in the given sentence.  
Nina has not yet learned how to straighten up and fly right.

- Ans
- 1. forget the wrongdoings of the others
  - 2. improve her absurd behaviour and act seriously
  - 3. be professional in flying the aircraft
  - 4. remember the past and prepare for the future

**Q.5** Select the most appropriate option to substitute the underlined segment in the given sentence.  
I had not only helped her by giving hints but also with providing her links.

- Ans**
- 1. helped her not only by
  - 2. helped her not by
  - 3. helped her only by
  - 4. helped not only her by

**Q.6** Select the most appropriate option to substitute the underlined segment in the given sentence.  
Positive self-talk have a great affect on one's self-worth.

- Ans**
- 1. has a great affect
  - 2. have a great effect
  - 3. having a great affect
  - 4. has a great effect

**Q.7** Parts of the following sentence have been given as options. Select the option that contains an error.  
Deepak is studying B.tech. at IIT Delhi to become the engineer.

- Ans**
- 1. B.tech. at IIT Delhi
  - 2. the engineer
  - 3. to become
  - 4. Deepak is studying

**Q.8** Select the option that expresses the given sentence in active voice.  
He was given a reward for his contribution by the Governor.

- Ans**
- 1. For his contribution, he was rewarded by the governor.
  - 2. The governor rewarded him.
  - 3. The governor gave him a reward for his contribution.
  - 4. Rewarded by the governor, as he contributed along.

**Q.9** Select the most appropriate ANTONYM of the given word.  
Hostile

- Ans**
- 1. Incoherent
  - 2. Doubtful
  - 3. Eager
  - 4. Friendly

**Q.10** Select the option that can be used as a one-word substitute for the given group of words.  
Dealing with things in a practical and sensible way

- Ans**
- 1. Pragmatic
  - 2. Sceptic
  - 3. Stoic
  - 4. Cynic

**Q.11** Select the correct spelling to fill in the blank.

Definitions of \_\_\_\_\_ are subjective to various interpretations.

- Ans**
- 1. sovereignty
  - 2. suverignty
  - 3. soverainity
  - 4. soverenty

Q.12 Select the most appropriate ANTONYM of the given word.  
Foment

- Ans
- 1. Proximity
  - 2. Remoteness
  - 3. Separation
  - 4. Regulate

Q.13 Select the INCORRECTLY spelt word.

- Ans
- 1. Guilty
  - 2. Atempt
  - 3. Admit
  - 4. Agree

Q.14 Select the option that can be used as a one-word substitute for the given group of words  
Anything pertaining to cats

- Ans
- 1. Bovine
  - 2. Canine
  - 3. Taurine
  - 4. Feline

Q.15 Select the most appropriate option to fill in the blank.  
Sharat is always \_\_\_\_\_ about showing up for work because he believes that tardiness gets us nowhere.

- Ans
- 1. selective
  - 2. patient
  - 3. drowsy
  - 4. punctual

Q.16 Select the most appropriate synonym of the underlined word in the following sentence.  
Sachin Tendulkar was an indispensable member of the Indian cricket team in his days.

- Ans
- 1. Motivational
  - 2. Essential
  - 3. Optional
  - 4. Functional

Q.17 The following sentence has been divided into four segments. Identify the segment in which the article has been used INCORRECTLY.

Master Sam / is a heaviest / boy in / grade twelve.

- Ans
- 1. boy in
  - 2. Master Sam
  - 3. grade twelve.
  - 4. is a heaviest

Q.18 Select the option that expresses the given sentence in passive voice.  
We have to say little in this matter.

- Ans
- 1. Little had to be said in this matter.
  - 2. In this matter, little is to be said.
  - 3. In this matter, little must be said.
  - 4. Little has to be said in this matter.

**Q.19** Select the option that can be used as a one-word substitute for the given group of words.  
That which is no longer in existence

- Ans**
- 1. Extinct
  - 2. Removed
  - 3. Vanished
  - 4. Destroyed

**Q.20** Select the most appropriate synonym of the given word.  
Cascade

- Ans**
- 1. Garden
  - 2. Waterfall
  - 3. Criticise
  - 4. Arcade

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)\_\_\_\_\_ the tenets of the Natya Shastra is called a classical dance. The two broad (2)\_\_\_\_\_ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)\_\_\_\_\_ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)\_\_\_\_\_ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)\_\_\_\_\_ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. to
  - 2. for
  - 3. of
  - 4. with

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)\_\_\_\_\_ the tenets of the Natya Shastra is called a classical dance. The two broad (2)\_\_\_\_\_ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)\_\_\_\_\_ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)\_\_\_\_\_ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)\_\_\_\_\_ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. criteria
  - 2. options
  - 3. display
  - 4. aspects



**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)\_\_\_\_\_ the tenets of the Natya Shastra is called a classical dance. The two broad (2)\_\_\_\_\_ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)\_\_\_\_\_ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)\_\_\_\_\_ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)\_\_\_\_\_ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. renovate
  - 2. informed
  - 3. flourished
  - 4. associated

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)\_\_\_\_\_ the tenets of the Natya Shastra is called a classical dance. The two broad (2)\_\_\_\_\_ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)\_\_\_\_\_ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)\_\_\_\_\_ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)\_\_\_\_\_ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. vegetative
  - 2. commodious
  - 3. haphazard
  - 4. interpretative

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)\_\_\_\_\_ the tenets of the Natya Shastra is called a classical dance. The two broad (2)\_\_\_\_\_ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)\_\_\_\_\_ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)\_\_\_\_\_ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)\_\_\_\_\_ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. terminologies
  - 2. schools
  - 3. characters
  - 4. functions

## Combined Graduate Level Examination 2024 Tier I

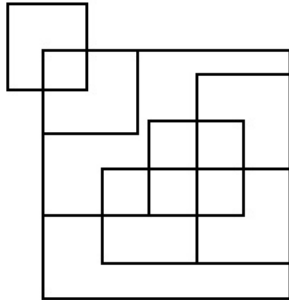
Exam Date	24/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** In a certain code language, 'BLEACHERS' is coded as '63' and 'ABACAS' is coded as '42'. How will 'FIZZY' be coded in the same language?

- Ans
- 1. 44
  - 2. 45
  - 3. 35
  - 4. 52

**Q.2** How many squares are there in the figure shown below?

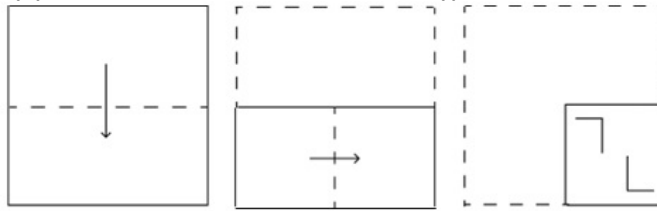


- Ans
- 1. 11
  - 2. 14
  - 3. 12
  - 4. 13

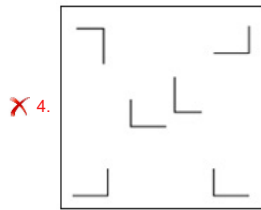
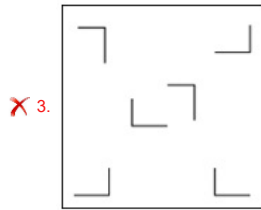
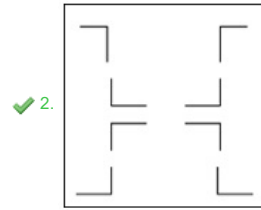
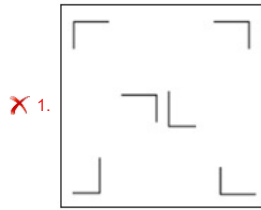
**Q.3** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Botany : Plants :: Conchology : ?

- Ans
- 1. Names
  - 2. Shells
  - 3. Soil
  - 4. Fossils

Q.4 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans



Q.5 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?  
JAL, MDO, PGR, SJU, ?

- Ans
- ✗ 1. WNX
  - ✗ 2. WMX
  - ✓ 3. VMX
  - ✗ 4. VMY

Q.6 64 is related to 4 following a certain logic. Following the same logic, 216 is related to 6. To which of the following is 729 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- ✗ 1. 11
  - ✗ 2. 13
  - ✗ 3. 7
  - ✓ 4. 9

Q.7 Which of the following numbers will replace the question marks (?) in the given series?  
61, ?, ?, 73, 79, 83, 89

- Ans
- ✗ 1. 67, 69
  - ✗ 2. 63, 65
  - ✗ 3. 63, 67
  - ✓ 4. 67, 71

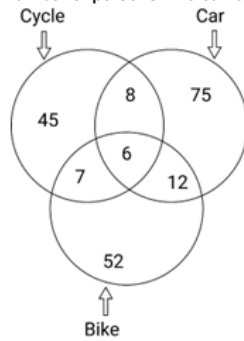
Q.8 In a certain code language, 'ZCJV' is coded as 'YBIU' and 'GKMD' is coded as 'FJLC'. How will 'EYOR' be coded in that language?

- Ans
- ✗ 1. QWMP
  - ✓ 2. DXNQ
  - ✗ 3. DWMP
  - ✗ 4. CXNQ

Q.9 The position of how many letters will remain unchanged if each of the letters in the word 'SIGNATURE' is re-arranged in the English alphabetical order from left to right?

- Ans
- 1. Three
  - 2. One
  - 3. Two
  - 4. Four

Q.10 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of persons who can drive different vehicles.



What is the difference between the number of persons who can drive all the three vehicles and that of persons who can drive any two of these vehicles?

- Ans
- 1. 27
  - 2. 15
  - 3. 12
  - 4. 21

Q.11 Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Love : Harmony

- Ans
- 1. Calm : Sad
  - 2. Peace : Bliss
  - 3. Rage : Cool
  - 4. Anger : Excitement

Q.12 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans
- 1. s b S t P M O
  - 2. s b S t P w O
  - 3. s d S t 4 w O
  - 4. s b t 2 P w O

Q.13 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- 1. HKI
  - 2. RUS
  - 3. MPN
  - 4. QUR

Q.14 Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '÷' and '×' are interchanged?  
 $7 \div 5 - 30 \times 6 + 4 = ?$

- Ans
- 1. 30
  - 2. 36
  - 3. 34
  - 4. 32

Q.15 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

B \_ DE \_ GDGBK \_ IB \_ DK

- Ans
- 1. CODB
  - 2. CBDO
  - 3. CBDP
  - 4. OCBD

**Q.16** In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.

Statements:

All grains are cereals.

Some cereals are fruits.

No fruit is a vegetable.

Conclusions:

I. All cereals can be vegetables.

II. All grains are fruits.

- Ans
- 1. Both Conclusions I and II follow.
  - 2. Neither Conclusion I nor II follow.
  - 3. Only Conclusion II follows.
  - 4. Only Conclusion I follows.

**Q.17** 7 is related to 40 by certain logic. Following the same logic, 5 is related to 16. To which of the following is 9 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 72
  - 2. 70
  - 3. 48
  - 4. 54

**Q.18** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $1604 \times 4 + 87 - 16 \div 16 = ?$

- Ans
- 1. 570
  - 2. 770
  - 3. 670
  - 4. 870

**Q.19** Select the correct mirror image of the given figure when the mirror is placed at MN.



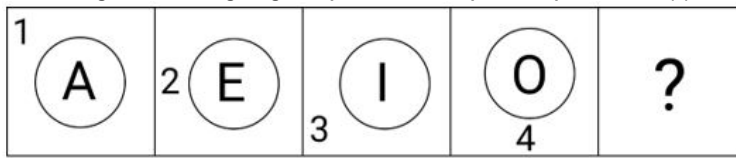
- Ans
- 1. Kf59Bar
  - 2. Kf59Bar
  - 3. Kf59Bar
  - 4. Kf59Bar

**Q.20** Identify the figure from among the given options which when put in place of the question mark (?) will logically complete the series.

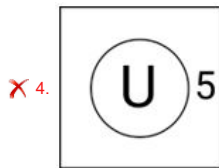
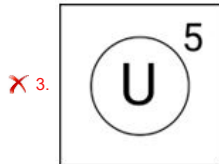
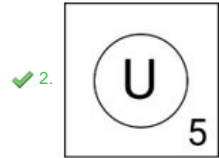
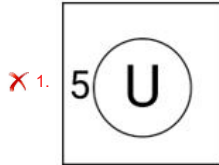
?	q	ð	v	
P	6	Z	C	?

- Ans
- 1.
  - 2.
  - 3.
  - 4.

Q.21 Select the figure from among the given options that can replace the question mark (?) in the following series.



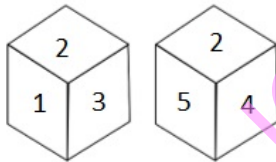
Ans



Q.22 Q is the mother of T. R is the husband of P. S is the father of Q. T is the brother of P. How is P related to S?

- Ans
- ✓ 1. Daughter's daughter
  - ✗ 2. Mother's mother
  - ✗ 3. Mother's father
  - ✗ 4. Brother's wife

Q.23 Two different positions of the same dice are given below. Which is the number on the face opposite the face containing 5?



- Ans
- ✗ 1. 6
  - ✗ 2. 2
  - ✓ 3. 1
  - ✗ 4. 3

Q.24 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
(26, 114)  
(47, 198)

- Ans
- ✗ 1. (25, 105)
  - ✗ 2. (18, 74)
  - ✗ 3. (22, 88)
  - ✓ 4. (15, 70)

Q.25 Three of the following numbers are alike in a certain way and one is different. Pick the odd one out.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- ✗ 1. 829
  - ✗ 2. 643
  - ✗ 3. 821
  - ✓ 4. 237

Q.1	Gangubai Hangal belonged to the _____.
Ans	<input checked="" type="checkbox"/> 1. Gwalior gharana <input checked="" type="checkbox"/> 2. Kirana gharana <input checked="" type="checkbox"/> 3. Banaras gharana <input checked="" type="checkbox"/> 4. Agra gharana
Q.2	Which of the following districts of India is an example of an industrial district?
Ans	<input checked="" type="checkbox"/> 1. Faridabad <input checked="" type="checkbox"/> 2. Meerut <input checked="" type="checkbox"/> 3. Kota <input checked="" type="checkbox"/> 4. Jaipur
Q.3	Which among the following is NOT a classification criterion of drugs?
Ans	<input checked="" type="checkbox"/> 1. Chemical structure <input checked="" type="checkbox"/> 2. Molecular target <input checked="" type="checkbox"/> 3. Behavioural condition <input checked="" type="checkbox"/> 4. Pharmacological effect
Q.4	The Non-Cooperation Movement was called off after which of the following incidents?
Ans	<input checked="" type="checkbox"/> 1. Outbreak of the First World War <input checked="" type="checkbox"/> 2. Kakori train robbery <input checked="" type="checkbox"/> 3. Chauri-Chaura incident <input checked="" type="checkbox"/> 4. Komagata Maru incident
Q.5	With reference to Ishwar Chandra Vidyasagar, consider the following statements. a) He protested child marriage and polygamy. b) Due to his efforts, the first Hindu Widow Remarriage Act, 1856, was introduced. c) He was primarily known for his scholarship in Persian language. Which of the above statements is/are correct?
Ans	<input checked="" type="checkbox"/> 1. a, b, c <input checked="" type="checkbox"/> 2. a, b <input checked="" type="checkbox"/> 3. a, c <input checked="" type="checkbox"/> 4. b, c
Q.6	What happens when two forces act in the opposite directions on an object?
Ans	<input checked="" type="checkbox"/> 1. The net force acting on the object is the difference between the two objects. <input checked="" type="checkbox"/> 2. The net force acting on the object is the difference between the two forces. <input checked="" type="checkbox"/> 3. The net force acting on the object is the total of the two forces. <input checked="" type="checkbox"/> 4. The net force acting on the object is the sum of the two objects.
Q.7	Which industrial policy marked the beginning of liberalisation in the Indian industry, reducing the restrictions on private companies?
Ans	<input checked="" type="checkbox"/> 1. Industrial Policy 1991 <input checked="" type="checkbox"/> 2. Industrial Policy 1980 <input checked="" type="checkbox"/> 3. Industrial Policy 1977 <input checked="" type="checkbox"/> 4. Industrial Policy 1956
Q.8	The first Indian woman to hold the Under-20 World Wrestling Championship is _____.
Ans	<input checked="" type="checkbox"/> 1. Antim Panghal <input checked="" type="checkbox"/> 2. Pranati Nayak <input checked="" type="checkbox"/> 3. Swati Sanjay <input checked="" type="checkbox"/> 4. Hina Khalifa
Q.9	The name of the strait between the Pacific and Arctic oceans, separating the Chukchi Peninsula of the Russian Far East from the Seward Peninsula of Alaska, is the:
Ans	<input checked="" type="checkbox"/> 1. Davis Strait <input checked="" type="checkbox"/> 2. Florida Strait <input checked="" type="checkbox"/> 3. Bering Strait <input checked="" type="checkbox"/> 4. Messina Strait
Q.10	Which Committee identified the existence of legal provisions for implementation of some of the Fundamental Duties?
Ans	<input checked="" type="checkbox"/> 1. Justice Mulla Committee <input checked="" type="checkbox"/> 2. Justice Verma Committee <input checked="" type="checkbox"/> 3. Justice Sapre Committee <input checked="" type="checkbox"/> 4. Justice VR Krishna Iyer Committee
Q.11	'Ungali Oruvan' (One Among You) is the autobiography of which of the following chief ministers?
Ans	<input checked="" type="checkbox"/> 1. MK Stalin <input checked="" type="checkbox"/> 2. K Chandrashekhara Rao <input checked="" type="checkbox"/> 3. Basavaraj Bommai <input checked="" type="checkbox"/> 4. Pinarayi Vijayan

Q.12 Which of the following articles of the Indian constitution deals with the parliament and its proceedings?

- Ans
- 1. Article 51A
  - 2. Article 36 to 51
  - 3. Article 79 to 122
  - 4. Article 12 to 35

Q.13 What was India's annual exponential growth rate as per the 2011 Census?

- Ans
- 1. 1.10%
  - 2. 1.64%
  - 3. 4.34%
  - 4. 3.54%

Q.14 The Kuchipudi dance belongs to which of the following states?

- Ans
- 1. Tamil Nadu
  - 2. Andhra Pradesh
  - 3. Madhya Pradesh
  - 4. Manipur

Q.15 Which of the following is a saturated hydrocarbon?

- Ans
- 1.  $C_3H_8$
  - 2.  $C_6H_6$
  - 3.  $C_2H_4$
  - 4.  $C_4H_8$

Q.16 The final match of IPL 2023 was hosted by which of the following cities?

- Ans
- 1. Bengaluru
  - 2. Chennai
  - 3. Mumbai
  - 4. Ahmedabad

Q.17 Which of the following Rajiv Gandhi National Sadbhavana Awards was conferred on Ustad Amjad Ali Khan?

- Ans
- 1. 20<sup>th</sup>
  - 2. 19<sup>th</sup>
  - 3. 21<sup>st</sup>
  - 4. 18<sup>th</sup>

Q.18 A large number of words are derived from the word 'Go' meaning cow. A wealthy person was known as \_\_\_\_\_ in Vedic times.

- Ans
- 1. Gomat
  - 2. Gotra
  - 3. Gabaksha
  - 4. Gaveshana

Q.19 In which state of India is the Chandra Prabha Wildlife Sanctuary located?

- Ans
- 1. Bihar
  - 2. Gujarat
  - 3. Uttar Pradesh
  - 4. Madhya Pradesh

Q.20 Which of the following is a correct statement?

- Ans
- 1. National Income is GNP at FC.
  - 2. National Income is NDP at MP.
  - 3. National Income is GDP at MP.
  - 4. National Income is NNP at FC.

Q.21 Who among the following famous badminton players won Swiss Open 2022?

- Ans
- 1. Jwala Gutta
  - 2. Aparna Popat
  - 3. Saina Nehwal
  - 4. PV Sindhu

Q.22 The \_\_\_\_\_ portal is a platform provided by the Govt. of India for farmers to attain any information related to agriculture.

- Ans
- 1. Cropland
  - 2. Farmer's
  - 3. Agricultural
  - 4. Cultivation



Q.23 What is iGOT launched by the Government of India in April 2020?

- Ans
- 1. Online training portal for COVID-19 management
  - 2. Online portal for scholarships to single girl child
  - 3. Online portal for digital payments
  - 4. Online portal for social security schemes

Q.24 The Pratiharas who first had their capital at Bhinmal gained prominence during the rule of:

- Ans
- 1. Nagabhata I
  - 2. Nagarjuna
  - 3. Devpala
  - 4. Kanishka

Q.25 In India, Teachers' Day is celebrated annually on September 5 to mark the birthday of:

- Ans
- 1. APJ Abdul Kalam
  - 2. Sardar Vallabhbhai Patel
  - 3. Sarvepalli Radhakrishnan
  - 4. Subash Chandra Bose

Section : Quantitative Aptitude

Q.1 Ramu lent ₹3,000 to Raju and a certain sum to Ravi at the same time and at the same rate of simple interest of 8% per annum. After 5 years, he received a sum of ₹1,600 from Raju and Ravi together as interest. Find the sum lent to Ravi.

- Ans
- 1. ₹1,000
  - 2. ₹1,250
  - 3. ₹1,200
  - 4. ₹1,500

Q.2 If two straight lines are coinciding with each other, then the number of points of intersection is/are:

- Ans
- 1. infinitely many points of intersection
  - 2. finite number of point of intersection
  - 3. no points of intersection
  - 4. unique point of intersection

Q.3 Simplify  $\frac{1 + \sin \theta - \cos \theta}{1 + \sin \theta + \cos \theta}$ .

- Ans
- 1.  $\cos \frac{\theta}{2}$
  - 2.  $\sin \frac{\theta}{2}$
  - 3.  $\cot \frac{\theta}{2}$
  - 4.  $\tan \frac{\theta}{2}$

Q.4 Refer the below table and answer the question that follows.

India's exports in 2020	Value in million US \$
Electronics	720
Cotton	680
Jewellery	500
Steel	450
Software	850

Jewellery was what percentage of the total exports? (Rounded to two decimal places)

- Ans
- 1. 14.63%
  - 2. 15.63%
  - 3. 15.78%
  - 4. 14.34%

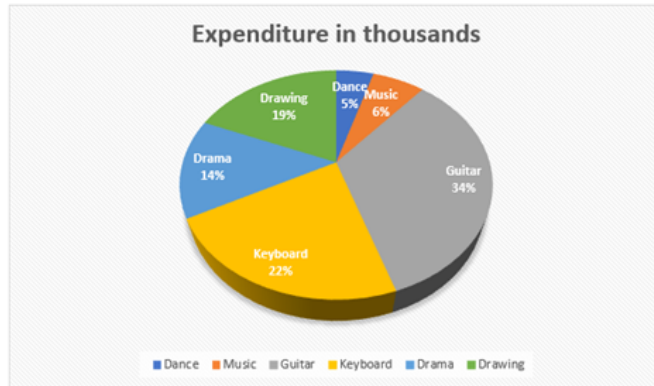
Q.5 One year ago, the age of B was twice that of A. After 9 years, if the ratio of the ages of B and A would be 4 : 3, then the sum of their present ages is \_\_\_\_ years.

- Ans
- 1. 30
  - 2. 15
  - 3. 17
  - 4. 21

Q.6 Find the gain percentage, given that Aditi sold her scooter for ₹25404 gaining  $\frac{1}{6}$ th of the selling price.

- Ans
- 1. 25%
  - 2. 30%
  - 3. 20%
  - 4. 40%

Q.7 Study the given pie chart carefully and answer the question that follows.  
The given pie chart depicts the expenditure incurred towards different hobby classes of an institute.



If the total expenditure is ₹10,70,000, then find the central angle of the sector representing 'drawing'.

- Ans
- 1.  $19^\circ$
  - 2.  $90^\circ$
  - 3.  $68.4^\circ$
  - 4.  $70^\circ$

Q.8 If  $10 \sin^2 \theta + 6 \cos^2 \theta = 7$ ,  $0 < \theta < 90^\circ$ , then find the value of  $\tan \theta$ .

- Ans
- 1.  $\sqrt{3}$
  - 2. 1
  - 3.  $\frac{1}{\sqrt{3}}$
  - 4.  $\frac{1}{2}$

Q.9 The ratio of the length, the breadth, and the height of a solid cuboid is given as 3 : 2 : 1, and the breadth of this cuboid is given as 12 cm. Find the volume (in  $\text{cm}^3$ ) of the cuboid.

- Ans
- 1. 1250
  - 2. 1296
  - 3. 1200
  - 4. 1500

Q.10 The angles of a triangle are in the ratio 1 : 2 : 3. The difference in the largest and smallest angle is (in degrees):

- Ans
- 1. 60
  - 2. 15
  - 3. 45
  - 4. 30

Q.11 If  $A = 15^\circ$ , then what is the value of  $\frac{11\sqrt{2} \cos 3A + 10 \sin 2A}{7\sqrt{3} \sin 4A}$ ?

- Ans
- 1.  $\frac{11}{7}$
  - 2.  $\frac{21}{32}$
  - 3.  $\frac{32}{21}$
  - 4.  $\frac{7}{11}$

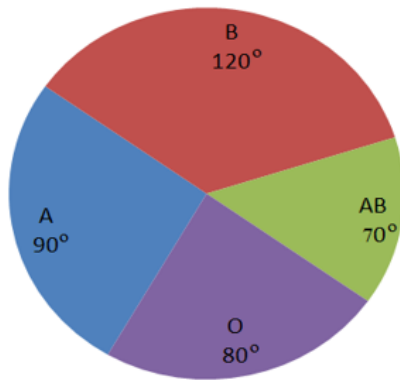
Q.12 The ratio of two numbers is 2 : 5 and their difference is 210. The smaller number is \_\_\_\_\_.

- Ans
- 1. 60
  - 2. 150
  - 3. 140
  - 4. 350

Q.13 If the market price of a bag is 25% above the cost price, and a discount of 18% is declared on it, then find the gain percentage.

- Ans
- 1. 1.5%
  - 2. 2.0%
  - 3. 3.0%
  - 4. 2.5%

Q.14 The given pie-chart shows the data on A, B, O, and AB blood groups of 240 donors. Study the chart and answer the question that follows.



What is the ratio of the average donors of blood groups 'A', 'O', and 'AB' to the donors of blood group 'B'?

- Ans
- 1. 3 : 4
  - 2. 4 : 3
  - 3. 2 : 3
  - 4. 1 : 3

Q.15 Pipe A can fill a cistern in 4 hours and Pipe B can fill the same cistern in 5 hours. Pipe C can empty a full cistern in 3 hours. If all three pipes are opened together, then the time (in minutes) taken to fill the tank is: (round to the nearest minute)

- Ans
- 1. 625
  - 2. 445
  - 3. 800
  - 4. 514

Q.16 The number of students in a class who have answered correctly, incorrectly, or not attempted each question in an examination is shown in the table below. The marks for each question are also listed. There is no negative or partial marking.

Q. No	Marks	Answered correctly	Answered incorrectly	Not attempted
1	1	20	10	10
2	2	15	15	10
3	5	20	20	0
4	10	12	15	13

Find the average of the marks obtained by the class in the examination.

- Ans
- 1. 6.75
  - 2. 6.25
  - 3. 5.25
  - 4. 5.75

Q.17 If  $a + b = c$ , then the expression  $a^3 + b^3 - c^3 + 3abc$  will be equal to:

- Ans
- 1. 0
  - 2. 3
  - 3. 2
  - 4. 1

Q.18 The income of a person is ₹16,500, and his expenditure is ₹12,000. Next year, his income increases by 24% but his expenditure decreases by 10%. The percentage increase (rounded off to the nearest integer) in his savings is:

- Ans
- 1. 90%
  - 2. 120%
  - 3. 115%
  - 4. 95%

Q.19 Let ABC be a triangle. If the mid-points of AB, BC and AC are D, E and F, respectively, then  $\triangle DEF$  is NOT congruent to \_\_\_\_\_.

- Ans
- 1.  $\triangle BDE$
  - 2.  $\triangle ECF$
  - 3.  $\triangle ADF$
  - 4.  $\triangle ABC$

Q.20 If 436P5 is divisible by 3, then the largest value of P is:

- Ans
- 1. 12
  - 2. 6
  - 3. 8
  - 4. 9

Q.21 In  $\Delta ABC$ ,  $AB = 6$  cm,  $BC = 9$  cm and  $AC = 12$  cm. If  $AD$  is the angle bisector of  $\angle BAC$ , where  $D$  is a point on  $BC$ , then  $AD =$

- Ans
- 1. 9
  - 2. 6
  - 3. 3
  - 4. 7

Q.22 Which composite number can divide the sum of the first 12 natural numbers?

- Ans
- 1. 6
  - 2. 12
  - 3. 4
  - 4. 8

Q.23 A line cuts two concentric circles. The length of chords formed by this line on the circles is 6 cm and 18 cm. Find the difference in the squares of the radii of two circles.

- Ans
- 1. 90
  - 2. 120
  - 3. 60
  - 4. 72

Q.24 A class of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 78. What is the average score of the class?

- Ans
- 1. 72.6
  - 2. 69.6
  - 3. 70.6
  - 4. 71.6

Q.25 A policeman is chasing a thief at a speed of 82 km/h. The thief is 1300 m away and is running at a speed of 64 km/h. In how much time will the policeman catch the thief if both are riding on bikes?

- Ans
- 1. 350 sec
  - 2. 260 sec
  - 3. 250 sec
  - 4. 300 sec

Section : English Comprehension

Q.1 The given sentence is divided into four segments. Select the option that has the segment with a grammatical error.  
Jerry driving / home late / when the incident / took place.

- Ans
- 1. took place.
  - 2. when the incident
  - 3. Jerry driving
  - 4. home late

Q.2 Select the INCORRECTLY spelt word.

- Ans
- 1. Possession
  - 2. Unfourseen
  - 3. Referred
  - 4. Weather

Q.3 Select the most appropriate synonym of the given word.  
Evoke

- Ans
- 1. Induce
  - 2. Abandon
  - 3. Divert
  - 4. Reduce

Q.4 Select the most appropriate synonym of the word in brackets to fill in the blanks.  
The soldiers spent long period \_\_\_\_\_ (convalescing).

- Ans
- 1. attacking
  - 2. travelling
  - 3. recovering
  - 4. ailing

- Q.5** Select the correctly spelled sentence.
- Ans** ✓ 1. The restaurant serves delicious meals.  
✗ 2. The restaurnt serves delisious meals.  
✗ 3. The resturant serves deliscious meals.  
✗ 4. The resteraunt serves delicious meals.

- Q.6** Select the most appropriate ANTONYM of the given word.  
**Intelligible**
- Ans** ✗ 1. Scriptable  
✗ 2. Embezzle  
✓ 3. Incoherent  
✗ 4. Deliberate

- Q.7** The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.
- The lions became violently / when the visitors / started throwing / stones at them.
- Ans** ✗ 1. stones at them.  
✓ 2. The lions became violently  
✗ 3. started throwing  
✗ 4. when the visitors

- Q.8** Select the word which means the same as the group of words given.
- Essence or main point of any passage, lecture or book
- Ans** ✓ 1. Gist  
✗ 2. Significance  
✗ 3. Meaning  
✗ 4. Heart

- Q.9** Select the most appropriate synonym of the given word.  
**Grotesque**
- Ans** ✗ 1. Shameful  
✗ 2. Comely  
✓ 3. Ugly  
✗ 4. Spontaneous

- Q.10** Select the most appropriate option that can substitute the underlined segment in the given sentence.
- Arushya purchased the most good of all the suits kept in the shop.
- Ans** ✗ 1. the goods  
✓ 2. the best  
✗ 3. the more good  
✗ 4. the good

- Q.11** Select the most appropriate synonym of the given word.  
**Loving**
- Ans** ✗ 1. Subordinate  
✓ 2. Affectionate  
✗ 3. Rejuvenate  
✗ 4. Offish

- Q.12** Select the option that can be used as a one-word substitute for the underlined group of words.  
We, as human beings, have a tendency of believing in the things that can be seen and touched.
- Ans** ✗ 1. impalpable  
✗ 2. spiritual  
✗ 3. inexpressible  
✓ 4. tangible

- Q.13** Select the most appropriate idiom to fill in the blank.
- After months of dedication and effort, I finally completed the marathon. I can really \_\_\_\_\_ for this accomplishment.
- Ans** ✗ 1. eat like a horse  
✗ 2. up a creek without a paddle  
✗ 3. blow hot and cold  
✓ 4. pat myself on the back

- Q.14** Select the most appropriate meaning of the underlined idiom in the following sentence.  
The leader of the Legislative Assembly won the hearts of the members through his maiden speech during the session in state council.
- Ans** ✗ 1. final speech  
✗ 2. closure speech  
✓ 3. first speech  
✗ 4. logical speech

Q.15 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Even if you've never heard his name, you've probably met someone with his words tattooed in their skin or heard them sung at a music concert.

- Ans
- 1. tattooed through their skin
  - 2. tattooed until their skin
  - 3. tattooed overdoing their skin
  - 4. tattooed on their skin

Q.16 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. at the same time giving happiness to the poor
- B. by providing them with food, clothes, money or grain
- C. festivals in India are celebrated to share happiness
- D. by being in the presence of the members of the family and

- Ans
- 1. ACBD
  - 2. CBAD
  - 3. CABD
  - 4. CDAB

Q.17 Select the option that expresses the given sentence in passive voice.

The chef prepares the meal with great care.

- Ans
- 1. The meal was prepared with great care by the chef.
  - 2. The meal will be prepared with great care by the chef.
  - 3. The meal is prepared with great care by the chef.
  - 4. The meal has been prepared with great care by the chef.

Q.18 Select the most appropriate synonym of the given word.

Necessary

- Ans
- 1. Potential
  - 2. Essential
  - 3. Existential
  - 4. Spatial

Q.19 Select the option that expresses the following sentence in active voice.

The novels of Dickens are being read by Mayank.

- Ans
- 1. Mayank is reading the novels of Dickens.
  - 2. Mayank has been reading the novels of Dickens.
  - 3. Mayank was reading the novels of Dickens.
  - 4. Mayank had been reading the novels of Dickens.

Q.20 Select the option that can be used as a one-word substitute for the given group of words.

Fear of snakes

- Ans
- 1. Claustrophobia
  - 2. Syngenesophobia
  - 3. Xenophobia
  - 4. Ophidiophobia

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.  
Listening starts with hearing but goes (1)\_\_\_\_\_. Hearing, in other words, is necessary, but is not a sufficient (2)\_\_\_\_\_ for listening. Listening involves hearing with attention. Listening is a process that (3)\_\_\_\_\_ concentration. While listening, one should also be observant. In other words, listening has to do with the ears, (4)\_\_\_\_\_ with the eyes and the mind. Listening is to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good communication is essentially a/an (5)\_\_\_\_\_ process.

**SubQuestion No : 21**

Q.21 Select the most appropriate option to fill in blank number 1.

- Ans
- 1. towards
  - 2. across
  - 3. beyond
  - 4. throughout

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.  
Listening starts with hearing but goes (1)\_\_\_\_\_. Hearing, in other words, is necessary, but is not a sufficient (2)\_\_\_\_\_ for listening. Listening involves hearing with attention. Listening is a process that (3)\_\_\_\_\_ concentration. While listening, one should also be observant. In other words, listening has to do with the ears, (4)\_\_\_\_\_ with the eyes and the mind. Listening is to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good communication is essentially a/an (5)\_\_\_\_\_ process.

**SubQuestion No : 22**

Q.22 Select the most appropriate option to fill in blank number 2.

- Ans
- 1. place
  - 2. decorum
  - 3. condition
  - 4. scenario

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

Listening starts with hearing but goes (1)\_\_\_\_\_. Hearing, in other words, is necessary, but is not a sufficient (2)\_\_\_\_\_ for listening. Listening involves hearing with attention. Listening is a process that (3)\_\_\_\_\_ concentration. While listening, one should also be observant. In other words, listening has to do with the ears, (4)\_\_\_\_\_ with the eyes and the mind. Listening is to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good communication is essentially a/an (5)\_\_\_\_\_ process.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. calls for
  - 2. disposes of
  - 3. takes for
  - 4. brings up

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

Listening starts with hearing but goes (1)\_\_\_\_\_. Hearing, in other words, is necessary, but is not a sufficient (2)\_\_\_\_\_ for listening. Listening involves hearing with attention. Listening is a process that (3)\_\_\_\_\_ concentration. While listening, one should also be observant. In other words, listening has to do with the ears, (4)\_\_\_\_\_ with the eyes and the mind. Listening is to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good communication is essentially a/an (5)\_\_\_\_\_ process.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. although
  - 2. rather
  - 3. as well as
  - 4. yet

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

Listening starts with hearing but goes (1)\_\_\_\_\_. Hearing, in other words, is necessary, but is not a sufficient (2)\_\_\_\_\_ for listening. Listening involves hearing with attention. Listening is a process that (3)\_\_\_\_\_ concentration. While listening, one should also be observant. In other words, listening has to do with the ears, (4)\_\_\_\_\_ with the eyes and the mind. Listening is to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good communication is essentially a/an (5)\_\_\_\_\_ process.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. onerous
  - 2. obnoxious
  - 3. interactive
  - 4. pecuniary

KD JOB UPDATES

## Combined Graduate Level Examination 2024 Tier I

Exam Date	25/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** Which letter-cluster will replace the question mark (?) to complete the given series?  
CQJG, ERMJ, ?, ITSP, KUVS

- Ans
- 1. GSQM
  - 2. GRPM
  - 3. GSPM
  - 4. GTPM

**Q.2** All the six members of a family, 1, 2, 3, 4, 5 and 6, live together. 2 is the daughter of 3, but 3 is not the mother of 2. 1 and 3 are a married couple. 5 is the sister of 3. 4 is the daughter of 1. 6 is the brother of 2. Who is the mother of 2?

- Ans
- 1. 4
  - 2. 5
  - 3. 1
  - 4. 2

**Q.3** Select the number from among the given options that can replace the question mark (?) in the following series.  
35, 46, 68, 101, 145, ?

- Ans
- 1. 200
  - 2. 214
  - 3. 212
  - 4. 210

**Q.4** Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

Z \_ A \_ Z \_ \_ Z A \_ Z \_

- Ans
- 1. AZZAZZ
  - 2. AZAZAZ
  - 3. ZZAZZA
  - 4. ZZZAAA

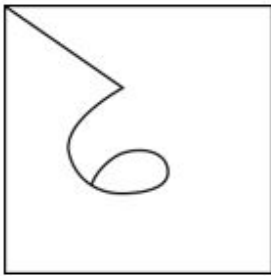
**Q.5** 11 is related to 121 following a certain logic. Following the same logic, 22 is related to 484. To which of the following is 31 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. 961
  - 2. 957
  - 3. 943
  - 4. 973



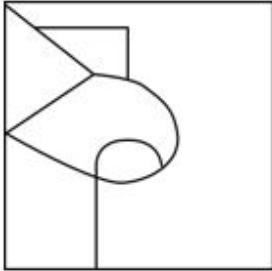
Q.6 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



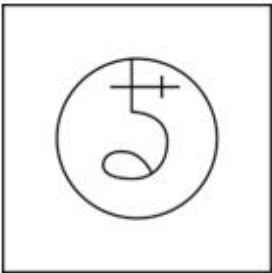
(X)

Ans

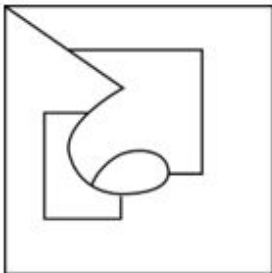
✗ 1.



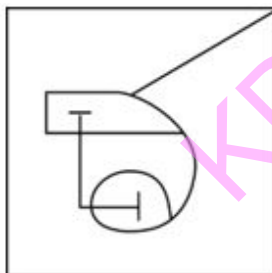
✗ 2.



✓ 3.



✗ 4.



Q.7 In a certain code language, 'EAGLE' is written as 'DZFKD' and 'DREAM' is written as 'CQDZL'. How will 'SINCE' be written in that language?

- Ans
- ✗ 1. RJOB
  - ✗ 2. THMDF
  - ✓ 3. RHMBD
  - ✗ 4. TJODF

Q.8 Select the term from among the given options that can replace the question mark (?) in the given series.  
HM71, JP68, LS65, NV62, ?

- Ans
- ✗ 1. QY57
  - ✗ 2. RX59
  - ✗ 3. QX58
  - ✓ 4. PY59

**Q.9** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

Some vegetables are fruits.  
Some fruits are flowers.  
All flowers are garlands.

**Conclusions:**

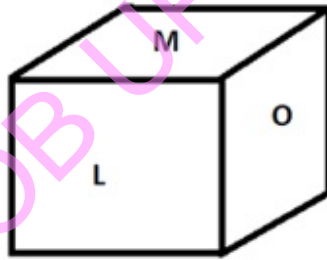
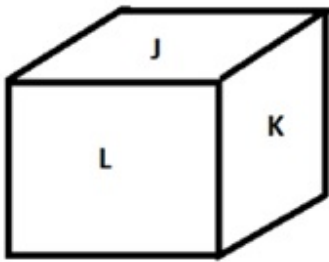
- I. Some garlands are fruits.
- II. Some vegetables are flowers.
- III. Some vegetables are garlands.

- Ans**
- 1. Only conclusions I and II follow
  - 2. Only conclusion I follows
  - 3. Only conclusions II and III follow
  - 4. Only conclusions I and III follow

**Q.10** The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

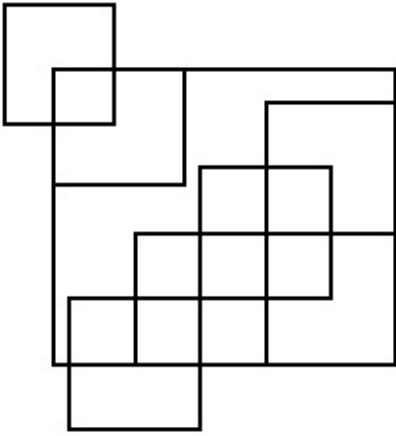
- Ans**
- 1. 7 : 15
  - 2. 11 : 121
  - 3. 22 : 45
  - 4. 5 : 11

**Q.11** Six letters J, K, L, M, N and O are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to N.



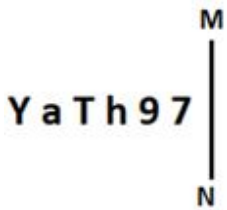
- Ans**
- 1. M
  - 2. L
  - 3. J
  - 4. K

Q.12 How many squares are there in the figure shown below?



- Ans
- 1. 17
  - 2. 18
  - 3. 16
  - 4. 15

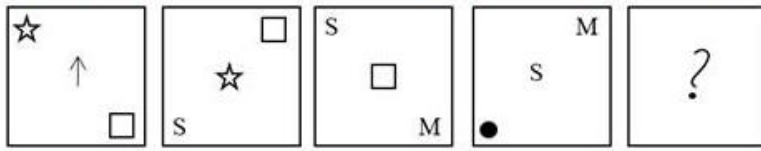
Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. Y a T h 9 7
  - 2. Y a T h 9 7
  - 3. Y a T h 9 7
  - 4. Y a T h 9 7

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Q.14 Select the figure from among the given options that can replace the question mark (?) and complete the pattern.



Ans

- ✗ 1.
- ✗ 2.
- ✓ 3.
- ✗ 4.

Q.15 Select the set in which the numbers are related in the same way as are the numbers of the following set.

(24, 15, 120)

(21, 19, 133)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- ✗ 1. (18, 16, 99)
  - ✗ 2. (31, 9, 96)
  - ✗ 3. (33, 10, 170)
  - ✓ 4. (27, 12, 108)

Q.16 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

Note : The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans
- ✗ 1. YWVT
  - ✗ 2. NLKI
  - ✓ 3. WVTS
  - ✗ 4. SQPN

Q.17 Select the correct combination of mathematical signs to sequentially place from left to right in the blanks below to balance the given equation.

$$75 \_ 3 \_ 17 \_ 8 = 0$$

- Ans
- ✗ 1. ×, +, -
  - ✗ 2. -, -, ×
  - ✗ 3. -, -, +
  - ✓ 4. ÷, -, -

Q.18 In a certain code language, 'EXCESS' is written as '726572121', 'ENERGY' is written as '716720927', how will 'ESCAPE' be written in that language?

- Ans
- 1. 72153165
  - 2. 72151167
  - 3. 72153187
  - 4. 71933187

Q.19 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
CRW: TIN :: DOZ: UFQ :: ALW:?

- Ans
- 1. JCN
  - 2. RCN
  - 3. RCM
  - 4. JCM

Q.20 Select the figure from among the given option that can replace the question mark (?) in the following series.

S	△	N	O	4	2	N	P	4	2	S	△	?
	P			△			O			P		
2	4	O	N	P	S	△	S	2	4	O	N	

Ans

- 1. 

4	2	N
	△	
O	S	P
- 2. 

△	2	S
	4	
O	N	P
- 3. 

4	O	2
	S	
N	P	△
- 4. 

4	O	S
	2	
P	N	△

Q.21 Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $27 \times 3 + 4 \div 2 - 7 = ?$

- Ans
- 1. 6
  - 2. 10
  - 3. 9
  - 4. 8

**Q.22** The question contains pairs of words that are related to each other in a certain way. Three of the following four word pairs are alike as these have the same relationship and thus form a group. Which word pair is the one that DOES NOT belong to that group?

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants/vowels in the word.)

- Ans**
- ✓ 1. Shoes – feet
  - ✗ 2. Book – pages
  - ✗ 3. Spectacles – lens
  - ✗ 4. Flowers – petals

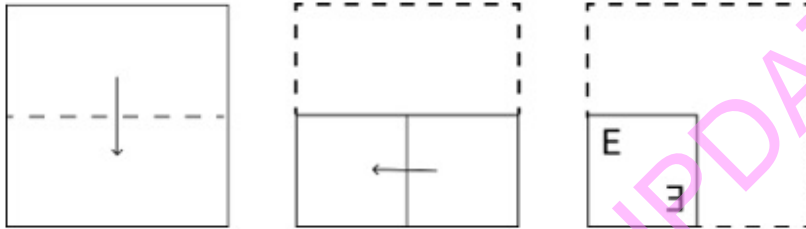
**Q.23** Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

4 : 68 :: 8 : 136 :: 9 : ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

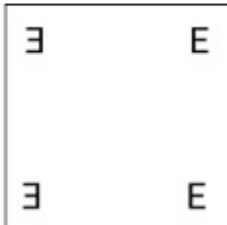
- Ans**
- ✗ 1. 152
  - ✗ 2. 149
  - ✗ 3. 147
  - ✓ 4. 153

**Q.24** A paper is folded and cut as shown below. How will it appear when unfolded?

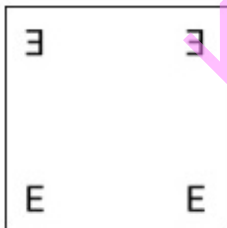


**Ans**

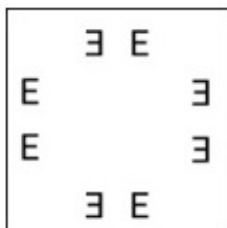
✗ 1.



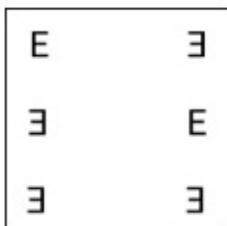
✗ 2.



✓ 3.



✗ 4.



**Q.25** The position of how many letters will change if each of the letters in the word 'CORNFLAKES' is re-arranged in the English alphabetical order from left to right?

- Ans**
- 1. Nine
  - 2. Seven
  - 3. Eight
  - 4. Ten

Section : General Awareness

**Q.1** Which Article of the Indian Constitution provides for protecting and improving the environment and safeguarding forests and wildlife?

- Ans**
- 1. Article 47-A
  - 2. Article 47-B
  - 3. Article 48-A
  - 4. Article 49-C

**Q.2** According to Mendeleev's Periodic Table, which elements' properties matched up remarkably well with eka-silicon?

- Ans**
- 1. Gallium
  - 2. Scandium
  - 3. Titanium
  - 4. Germanium

**Q.3** The Atal Innovation Mission was launched in year \_\_\_\_\_.

- Ans**
- 1. 2021
  - 2. 2016
  - 3. 2014
  - 4. 2004

**Q.4** Ishwari Prasad is credited to have introduced the \_\_\_\_\_ Gharana of Kathak.

- Ans**
- 1. Jaipur
  - 2. Raigarh
  - 3. Banaras
  - 4. Lucknow

**Q.5** Which essential amino acid enhances calcium absorption and also plays an important role in the formation of collagen?

- Ans**
- 1. Arginine
  - 2. Tyrosine
  - 3. Lysine
  - 4. Histidine

**Q.6** Which of the following is an example of an eastern coast port?

- Ans**
- 1. Mumbai Port
  - 2. Chennai Port
  - 3. Mormugao Port
  - 4. New Mangalore Port

**Q.7** Who suggested the law that the British Government passed in 1856 to support widow remarriage?

- Ans**
- 1. Keshub Chandra Sen
  - 2. Ishwar Chandra Vidyasagar
  - 3. Atmaram Pandurang
  - 4. Raja Ram Mohan Roy

**Q.8** In 2022, Vinay Mohan Kwatra took charge as the Foreign Secretary of India. Prior to this, he served as the ambassador to which of the following countries?

- Ans**
- 1. Bhutan
  - 2. Sri Lanka
  - 3. Nepal
  - 4. Maldives

**Q.9** An organic reaction used to convert an aryl diazonium salt into an aryl halide using a copper(I) halide catalyst is called:

- Ans**
- 1. Finkelstein reaction
  - 2. Gattermann reaction
  - 3. Sandmeyer reaction
  - 4. Balz-Schiemann reaction

**Q.10** Pulakeshin II assumed the title of 'Dakshinapatheshvara' (lord of the south) after defeating which of the following rulers of north India?

- Ans**
- 1. Rudrasena II
  - 2. Harshavardhana
  - 3. Dhruvasena II
  - 4. Prabhakarvardhana

**Q.11** In chess which of the following may move only diagonally?

- Ans**
- 1. The Bishop
  - 2. The Knight
  - 3. The Queen
  - 4. The Rook

**Q.12** Which famous santoor player was honoured with the Ustad Hafiz Ali Khan Award in 1998?

- Ans**
- 1. Tarun Bhattacharya
  - 2. Shivkumar Sharma
  - 3. Satish Vyas
  - 4. Abhay Sopori

**Q.13** Match the points under Column A with those under Column B.

Column A (Disease)

Column B (Organism Responsible)

i. Malaria

a. Vibrio

ii. Diarrhoea

b. Salmonella

iii. Typhoid

c. Rotavirus

iv. Cholera

d. Plasmodium

- Ans**
- 1. i-b, ii-a, iii-c, iv-d
  - 2. i-d, ii-c, iii-b, iv-a
  - 3. i-a, ii-c, iii-b, iv-d
  - 4. i-a, ii-b, iii-c, iv-d

**Q.14** In 1910, The United India House at Seattle, USA, was set up by \_\_\_\_\_.

- Ans**
- 1. Shyamji Krishna Varma
  - 2. Tarak Nath Das and GD Kumar
  - 3. Khudiram Bose and Prafulla Chaki
  - 4. VD Savarkar and Ganesh



**Q.15** Alla Rakha is famous for playing which of the following musical instruments?

- Ans**
- 1. Damaru
  - 2. Bansuri
  - 3. Shehnai
  - 4. Tabla

**Q.16** The record obtained by the measurement of earthquake is called a:

- Ans**
- 1. seismograph
  - 2. seismogram
  - 3. seismology
  - 4. seismic wave

**Q.17** Makar Sankranti is the festival dedicated to which of the following Lords?

- Ans**
- 1. Ganesha
  - 2. Surya
  - 3. Chandra
  - 4. Indra

**Q.18** What is the primary objective of the Micro, Small, and Medium Enterprises Development (MSMED) Act of 2006 in India?

- Ans**
- 1. To regulate foreign companies
  - 2. To focus on large-scale industries only
  - 3. To increase import tariffs to protect MSMEs
  - 4. To promote and facilitate the development of MSMEs

**Q.19** NDP = \_\_\_\_\_.

- Ans**
- 1. GDP – Depreciation
  - 2. GDP + Depreciation
  - 3. GDP – Net factor income from abroad
  - 4. GDP + Net factor income from abroad

**Q.20** Which part of the Indian Constitution deals with the Election Commission?

- Ans**
- 1. Part XV
  - 2. Part XII
  - 3. Part IV
  - 4. Part XI

**Q.21** Ghiyas ud-din Balban had set up a \_\_\_\_\_ department called 'Diwan-i-arz'.

- Ans**
- 1. military
  - 2. commerce
  - 3. education
  - 4. agriculture

**Q.22** According to Census of India 2011, female adolescents in the age group of 10-19 years had a share of:

- Ans**
- 1. 52.7%
  - 2. 47.3%
  - 3. 31.3%
  - 4. 20.9%

Q.23 When did a States Reorganisation Commission was set up, which recommended the creation of linguistic States on the basis of larger linguistic groups?

- Ans
- 1. December 1963
  - 2. December 1953
  - 3. December 1956
  - 4. December 1958

Q.24 Which of the following is associated with the retreating monsoon in India?

- Ans
- 1. Mahawat
  - 2. Kaal Baisakhi
  - 3. October heat
  - 4. Loo

Q.25 Where was the Durand Cup Tournament started in India in 1888?

- Ans
- 1. Mumbai
  - 2. Calcutta
  - 3. Shimla
  - 4. Delhi

Section : Quantitative Aptitude

Q.1 The salaries of P and Q together amount to ₹9,60,000. P and Q save 64% and 44%, respectively of their individual salaries. If P's expenditure is 1.5 times Q's expenditure, then what is the ratio of P's salary to Q's salary?

- Ans
- 1. 2 : 3
  - 2. 7 : 3
  - 3. 3 : 7
  - 4. 3 : 2

Q.2  $9 \div \left[ 1 + \left\{ 4 \times \left( \frac{5}{6} - \frac{1}{3} + \frac{1}{2} \right) \right\} \right]$  is equal to:

- Ans
- 1. 1
  - 2.  $\frac{9}{5}$
  - 3. 0
  - 4. 9

Q.3 Evaluate  $2 \frac{\tan 54^\circ}{\cot 36^\circ} - \frac{\cot 41^\circ}{\tan 49^\circ}$ .

- Ans
- 1. -1
  - 2. 1
  - 3. 0
  - 4. 2

Q.4 It is always possible to draw a circle passing through \_\_\_\_\_ non-collinear points in a plane.

- Ans
- 1. 3
  - 2. 6
  - 3. 5
  - 4. 4

Q.5 Rohini buys a Bluetooth headphone set for ₹1,700 from a wholesale shop and marks it at ₹2,000. Later on, she allows a discount of 40% on its sale. What is her loss or gain percentage (correct up to two decimal places)?

- Ans
- 1. 25.19% loss
  - 2. 29.41% gain
  - 3. 29.41% loss
  - 4. 25.19% gain

Q.6 The average of the squares of the first 48 natural numbers is

- Ans
- 1. 793.17
  - 2. 791.17
  - 3. 794.17
  - 4. 792.17

Q.7 An inlet pipe can fill a water storage tank in 11 hours and an outlet pipe can empty the completely filled tank in 15 hours .If both pipes opened simultaneously. The time taken to fill the empty tank ( in hrs) is :

- Ans
- 1.  $45\frac{1}{2}$
  - 2.  $41\frac{1}{4}$
  - 3.  $49\frac{3}{4}$
  - 4. 40

Q.8 If  $a^3 + \frac{1}{a^3} = 2$  ( $a > 0$ ), then the value of  $a + \frac{1}{a}$  is:

- Ans
- 1. 1
  - 2. 3
  - 3. 2
  - 4. 4

Q.9 Study the given table and answer the question that follows.

The given table shows the production of three types of cars (A, B and C) manufactured (in thousands) by an automobile company over the years.

Year	A	B	C
2015	840	680	890
2016	900	750	960
2017	760	620	1000
2018	800	540	1200

The total number of A-type cars produced by the company from 2015 to 2017 is what percentage (rounded off to the nearest integer) is more or less than the total number of C-type cars produced by the company from 2016 to 2018?

- Ans
- 1. More, 24%
  - 2. Less, 24%
  - 3. Less, 21%
  - 4. More, 21%

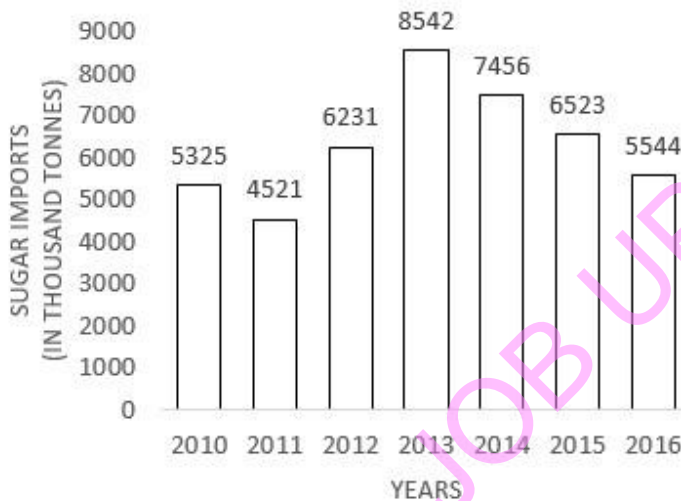
Q.10 If  $x^2 + 7x + 8 = 0$ , then find the value of  $\frac{4x}{x^2 - 5x + 8}$ .

- Ans
- 1.  $\frac{1}{2}$
  - 2.  $\frac{-1}{4}$
  - 3.  $\frac{-1}{3}$
  - 4.  $\frac{1}{6}$

Q.11 The simple interest on a sum for 6 years is three-fifth of the sum. The rate of interest per annum is:

- Ans
- 1. 3%
  - 2. 7%
  - 3. 10%
  - 4. 5%

Q.12 The given bar graph shows sugar imports of a country (in thousand tonnes) over the years. Study the graph and answer the question that follows.



The average imports (in thousand tonnes) of all the years is:

- Ans
- 1. 6306
  - 2. 6469
  - 3. 6433
  - 4. 6603

Q.13 If the lengths of two sides of an isosceles triangle are 6 cm and 12 cm, then find the length of the third side.

- Ans
- 1. 8 cm
  - 2. 6 cm
  - 3. 12 cm
  - 4. 14 cm

Q.14 The following table shows the number of pages printed by 3 printers (P, Q and R) for 3 days.

Day	P	Q	R
Monday	100	130	200
Tuesday	120	145	160
Wednesday	180	85	120

What is the ratio of the total number of pages printed by printer P over the course of three days to the total number of pages printed by printer Q during the same three days?

- Ans
- 1. 9 : 10
  - 2. 11 : 10
  - 3. 10 : 11
  - 4. 10 : 9

Q.15 Nihira is 25 years old and Punith is 30 years old. How many years ago was the ratio of their ages 3 : 4?

- Ans
- 1. 20 years
  - 2. 15 years
  - 3. 5 years
  - 4. 10 years

Q.16 The circumference of the base of the cylindrical vessel is 154 cm and its height is 49 mm. How many litres of water can it hold? (correct to three places of decimals, use  $\pi = \frac{22}{7}$ )

- Ans
- 1. 9.244
  - 2. 2.439
  - 3. 3.924
  - 4. 4.329

Q.17 The centres of two circles are 36 cm apart. If the radii of these two circles are 15 cm and 9 cm, respectively, then what is the sum of the lengths (in cm) of a direct common tangent and a transverse common tangent of these two circles?

- Ans
- 1.  $6\sqrt{5}(\sqrt{7} + 2)$
  - 2.  $6\sqrt{7}(\sqrt{5} + 2)$
  - 3.  $6\sqrt{5}(\sqrt{5} + 2)$
  - 4.  $6\sqrt{7}(\sqrt{7} + 2)$

Q.18 Find the values of 'a' and 'b' for which the system of equations  $3x+y=3$  and  $(a-b)x+(a+b)y=3a+b-3$  has infinite solutions.

- Ans
- 1.  $a = 3, b = -\frac{2}{3}$
  - 2.  $a = -\frac{3}{2}, b = 2$
  - 3.  $a = 3, b = -\frac{3}{2}$
  - 4.  $a = 2, b = -\frac{3}{2}$

Q.19 Suppose P starts walking at a speed of 8 km/h. After 8 hours B started travelling on a bicycle at a speed of 24 km/h. The distance from the starting B can catch A is:

- Ans
- 1. 64 km
  - 2. 96 km
  - 3. 72 km
  - 4. 88 km

Q.20 Ramesh purchased 130 books at the rate of ₹200 each and sold half of them at the rate of ₹300 each, one-fifth of them at the rate of ₹350 each and the rest at the cost price. Find his profit percentage.

- Ans
- 1. 35%
  - 2. 40%
  - 3. 38%
  - 4. 44%

Q.21 Find the value of  $(\operatorname{cosec} \theta - \sin \theta)(\sec \theta - \cos \theta)(\tan \theta + \cot \theta)$ .

- Ans
- 1. 0
  - 2.  $\frac{1}{2}$
  - 3. 1
  - 4. -1

Q.22 If  $m + 5 = \sec^2 A \operatorname{cosec}^2 A (1 - \cos^2 A)(1 - \sin^2 A) + 5$ , then find the value of m:

- Ans
- 1. 10
  - 2. 0
  - 3. 1
  - 4. 5

Q.23 The side BC of  $\triangle ABC$  is produced to a point D. If  $AC = BC$  and  $\angle BAC = 70^\circ$ , then find the value of  $\angle ACD - \angle ABC$ .

- Ans
- 1.  $70^\circ$
  - 2.  $60^\circ$
  - 3.  $75^\circ$
  - 4.  $45^\circ$

Q.24 Study the given table and answer the question.

The table displays the number of cars produced (in lakhs) by six different brands between 2018 and 2023.

Type	2018	2019	2000	2021	2022	2023
A	36	40	42	45	47	42
B	23	37	28	32	34	26
C	45	47	51	54	56	48
D	35	37	42	32	36	28
E	57	56	52	38	48	42
F	43	45	56	41	52	40

Find the difference in the average production of B and D during 2018-2023.

- Ans
- 1. 6 lakhs
  - 2. 4 lakhs
  - 3. 5 lakhs
  - 4. 5.5 lakhs

Q.25 Which of the following fractions is the largest?

$$\frac{3}{7}, \frac{7}{53}, \frac{41}{80}, \frac{29}{79}$$

Ans

1.  $\frac{29}{79}$

2.  $\frac{7}{53}$

3.  $\frac{3}{7}$

4.  $\frac{41}{80}$

Section : English Comprehension

Q.1 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
My dog / barks / very louder / at night.

Ans  1. My dog

2. very louder

3. barks

4. at night

Q.2 Select the option that expresses the given sentence in active voice.  
A comic play was performed by the comedian.

Ans  1. The comedian performs a comic play.

2. The comedian performed a comic play.

3. The comedian performance a comic play.

4. The comedian do perform a comic play.

Q.3 Select the most appropriate ANTONYM of the underlined word to fill in the blank.  
Ram failed initially but after a few years, he \_\_\_\_\_ in every field.

Ans  1. elevated

2. succeeded

3. enjoyed

4. reserved

Q.4 Select the most appropriate option to fill in the blank.

Raj is very interested in studying human psychology, so he decided to pursue his master's degree in \_\_\_\_\_.

Ans  1. Archaeology

2. Philosophy

3. Psychology

4. Anatomy

Q.5 Select the correctly spelt word.

Ans  1. Exhilaration

2. Exilaration

3. Exhillaration

4. Exhileration

**Q.6** Select the most appropriate option that can substitute the underlined part in the following sentence.  
The entire speech of the revivalist fell flat with the crowd that was present there.

- Ans**
- 1. had a great impact on
  - 2. had moderate influence on
  - 3. had somewhat of a result on
  - 4. had no effect on

**Q.7** Select the option that can be used as a one-word substitute for the given group of words.  
A performer's first public appearance

- Ans**
- 1. Foundation
  - 2. Debut
  - 3. Premise
  - 4. Dawn

**Q.8** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.  
(A) and was searching for them  
(B) the grandmother couldn't find  
(C) all around the house  
(D) placed them on her head  
(E) her spectacles because she had

- Ans**
- 1. BADEC
  - 2. BEDAC
  - 3. CABED
  - 4. ADBEC

**Q.9** Select the option that can be used as a one-word substitute for the given group of words.  
To go through an area making a lot of noise and causing damage

- Ans**
- 1. Brutality
  - 2. Cacophony
  - 3. Violence
  - 4. Rampage

**Q.10** Select the option that can substitute/replace the bracketed word correctly and complete the sentence.

If he runs, he (get) there in time.

- Ans**
- 1. will get
  - 2. is getting
  - 3. got there in time
  - 4. has to get

**Q.11** Select the most appropriate ANTONYM of the given word.

Laudable

- Ans**
- 1. Commendable
  - 2. Severe
  - 3. Deplorable
  - 4. Humorous

**Q.12** Select the most appropriate ANTONYM of the given word.  
Dissolve

- Ans**
- 1. Vanish
  - 2. Fade
  - 3. Solve
  - 4. Appear



Q.13 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- P) achieve success
- Q) when you
- R) and polite
- S) stay humble

- Ans
- 1. PRQS
  - 2. SRQP
  - 3. RQPS
  - 4. PQRS

Q.14 The following sentence contains a word with a spelling error. Rectify the sentence by selecting the correct spelling of the identified word from the given options.

Later on, he was truly apologetic for his misconduct in the meeting.

- Ans
- 1. Trooly
  - 2. Truily
  - 3. Truly
  - 4. Treuly

Q.15 Select the most appropriate synonym of the underlined word.  
Our university is affiliated with various institutes all over the world.

- Ans
- 1. disparate
  - 2. diverse
  - 3. unlike
  - 4. allied

Q.16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The company specialises at / designing, crafting and manufacturing / exquisite, high-quality furniture / of exceptional craftsmanship.

- Ans
- 1. exquisite, high-quality furniture
  - 2. designing, crafting and manufacturing
  - 3. The company specialises at
  - 4. of exceptional craftsmanship

Q.17 Select the most appropriate synonym of the underlined word.  
We went to a legitimate Mexican restaurant for my birthday, where they served cuisine like you would find in Mexico.

- Ans
- 1. genuine
  - 2. fictitious
  - 3. falsified
  - 4. productive

Q.18 Select the most appropriate synonym of the given word.

Derogatory

- Ans
- 1. Insulting
  - 2. Derivative
  - 3. Delegation
  - 4. Salutary

**Q.19** Select the option that expresses the given sentence in passive voice.

The research team is conducting experiments on a new drug that could revolutionise the treatment of the disease.

- Ans**
- 1. Experiments have been conducted on a new drug that could have revolutionised the treatment of the disease through the research team.
  - 2. Experiments were being conducted on a new drug that could revolutionise the treatment of the disease by the research team.
  - 3. Experiments are conducted on a new drug that could revolutionise the treatment of the disease from the research team.
  - 4. Experiments are being conducted on a new drug that could revolutionise the treatment of the disease by the research team.

**Q.20** Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

Leela was in class when the big fight happened. So, if you want to know the details, You should ask her, you will get the truth given by somebody who is directly involved and therefore likely to be accurate.

- Ans**
- 1. with kid gloves
  - 2. shooting off the cuff
  - 3. calling a spade a spade
  - 4. straight from the horse's mouth

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1) \_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2) \_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3) \_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4) \_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5) \_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. reason
  - 2. region
  - 3. reign
  - 4. river

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1) \_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2) \_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3) \_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4) \_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5) \_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. guard
  - 2. fun
  - 3. aid
  - 4. prey

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1) \_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2) \_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3) \_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4) \_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5) \_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. restricted
  - 2. accused
  - 3. claimed
  - 4. adjourned

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1) \_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2) \_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3) \_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4) \_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5) \_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. summary
  - 2. gaze
  - 3. record
  - 4. loss

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1) \_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2) \_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3) \_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4) \_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5) \_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. Innocuous
  - 2. Jeopardise
  - 3. channelise
  - 4. safeguard

## Combined Graduate Level Examination 2024 Tier I

Exam Date	25/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

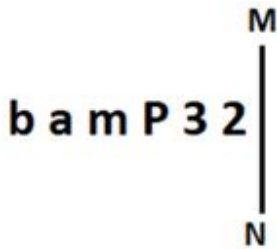
### Section : General Intelligence and Reasoning

**Q.1** 18 is related to 90 following a certain logic. Following the same logic, 31 is related to 155. To which of the following is 52 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

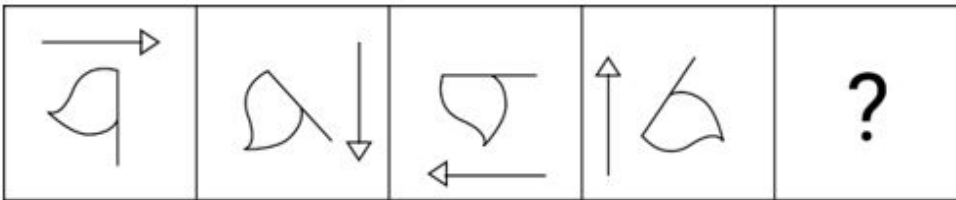
- Ans**
- 1. 256
  - 2. 248
  - 3. 265
  - 4. 260

**Q.2** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



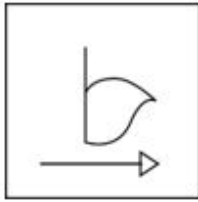
- Ans**
- 1. 2 3 P m a b
  - 2. 2 3 P m a b
  - 3. 2 P 3 m a b
  - 4. 2 3 P m a b

Q.3 Select the figure from among the given options that can replace the question mark (?) and logically complete the series.

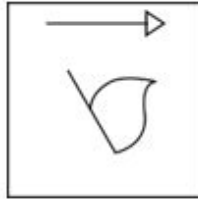


Ans

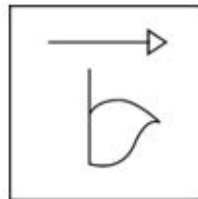
✗ 1.



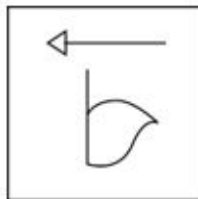
✗ 2.



✓ 3.



✗ 4.



Q.4 Which two numbers (not digits) should be interchanged to make the given equation correct?

$$15 + 5 \times 8 - 72 \div 4 + 16 \times 3 = 101$$

Ans

✗ 1. 5 and 4

✗ 2. 15 and 16

✓ 3. 5 and 3

✗ 4. 8 and 4

Q.5 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

EYES : FTFZ :: MIND : OENJ :: REST : ?

Ans

✗ 1. STSF

✗ 2. TUF S

✓ 3. TUSF

✗ 4. STRE

Q.6 In a certain code language, 'CLERK' is written as 'BKEQJ' and 'OFFICE' is written as 'OEEIBE'. How will 'POST' be written in that language?

Ans

✗ 1. OROS

✓ 2. OORS

✗ 3. RSOO

✗ 4. OSOR

Q.7 'Obstinate' is related to 'Stubborn' in the same way as 'Resolute' is related to '\_\_\_\_\_'.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- 1. Determined
  - 2. Wavering
  - 3. Thoughtful
  - 4. Dithering

Q.8 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1.  $68 - 54 - 94$
  - 2.  $36 - 88 - 80$
  - 3.  $23 - 56 - 51$
  - 4.  $34 - 56 - 62$

Q.9 17 is related to 102 following a certain logic. Following the same logic, 29 is related to 174. To which of the following is 39 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. 238
  - 2. 234
  - 3. 228
  - 4. 230

Q.10 The position of how many letters will remain unchanged if all the letters in the word RICKET are arranged in English alphabetical order?

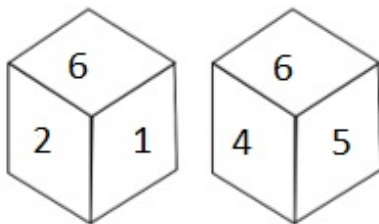
- Ans
- 1. Three
  - 2. Two
  - 3. One
  - 4. None

Q.11 Select the correct combination of letters that when sequentially filled in the blanks of the given series will make the series logically complete.

B\_FH\_LNP\_T\_X

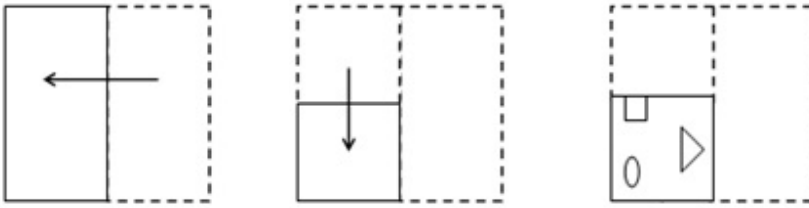
- Ans
- 1. DIQU
  - 2. DJRV
  - 3. CKSU
  - 4. CIQW

Q.12 Two different positions of the same dice are given below. Which is the number on the face opposite the face containing 5?



- Ans
- 1. 1
  - 2. 6
  - 3. 2
  - 4. 3

Q.13 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans

- ✗ 1.
- ✓ 2.
- ✗ 3.
- ✗ 4.

Q.14 Select the number from among the given options that can replace the question mark (?) in the following series.  
66, 75, 86, 99, 114, ?

- Ans
- ✗ 1. 140
- ✗ 2. 135
- ✗ 3. 139
- ✓ 4. 131

Q.15 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

8 – 33 – 66 – 81; 11 – 36 – 72 – 87

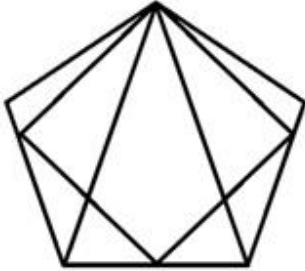
- Ans
- ✗ 1. 21 – 46 – 82 – 107
- ✓ 2. 15 – 40 – 80 – 95
- ✗ 3. 18 – 43 – 86 – 100
- ✗ 4. 6 – 31 – 62 – 97

Q.16 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- 1. QST
  - 2. ACD
  - 3. TWW
  - 4. IKL

Q.17 How many triangles are there in the given figure?



- Ans
- 1. 10
  - 2. 11
  - 3. 12
  - 4. 13

Q.18 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow from the statements.

Statements:

All papers are pencils.

All pencils are erasers.

All erasers are pens.

Conclusions:

I. All pens are papers.

II. Some papers are erasers.

III. Some pens are pencils.

- Ans
- 1. All the conclusions follow
  - 2. Only conclusions I and II follow
  - 3. Only conclusions II and III follow
  - 4. Only conclusions I and III follow

Q.19 Which two signs should be interchanged to make the following equation correct?  
 $139 + 40 \div 5 - 168 \times 3 = 283$

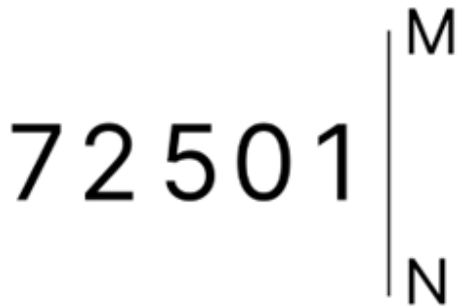
- Ans
- 1. - and +
  - 2. - and  $\times$
  - 3.  $\div$  and  $\times$
  - 4. + and  $\div$

Q.20 In a certain code language,  
A + B means 'A is the son of B',  
A - B means 'A is the wife of B',  
A  $\times$  B means 'A is the brother of B' and  
A  $\div$  B means 'A is the mother of B'.  
Based on the above, how is T related to P if 'P - M + R  $\div$  T  $\times$  S'?

- Ans
- 1. Brother's wife
  - 2. Brother
  - 3. Husband's brother
  - 4. Sister



Q.21 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



Ans

1. 10227

2. 10257

3. 10527

4. 10527

Q.22 All the alphabets in the word 'CARDBOARD' are arranged in the alphabetical order. How many alphabets are there in the English alphabetical series between the alphabet which is fourth from the left end and the one which is second from the right end in the newly formed cluster of nine letters?

Ans

1. 12

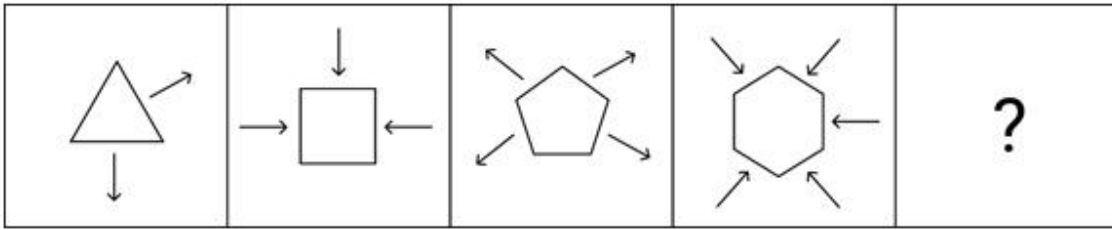
2. 16

3. 14

4. 10

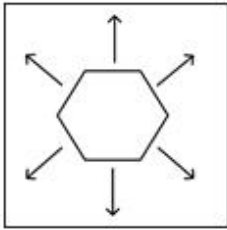
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Q.23 Identify the figure from among the given options which when put in place of the question mark (?) will logically complete the series.

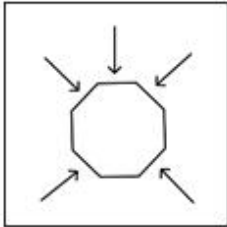


Ans

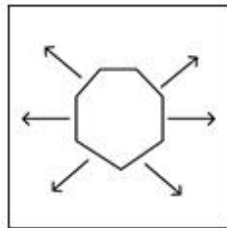
✗ 1.



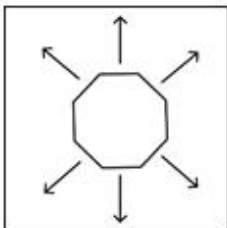
✗ 2.



✓ 3.



✗ 4.



Q.24 In the following series, only one letter-cluster is incorrect. Select the incorrect letter-cluster.  
ZXU SQN LKI ECZ XVS

- Ans
- ✗ 1. XVS
  - ✗ 2. ECZ
  - ✓ 3. LKI
  - ✗ 4. SQN

Q.25 In a certain code language, 'DRAPE' is coded as '65432' and 'TAPED' is coded as '24596'. What is the code for 'R' in that language?

- Ans
- ✗ 1. 2
  - ✗ 2. 6
  - ✓ 3. 3
  - ✗ 4. 9

Section : General Awareness

Q.1 Jaipal Singh Munda is associated with which of the following sports?

- Ans
- ✗ 1. Badminton
  - ✗ 2. Cricket
  - ✗ 3. Kabaddi
  - ✓ 4. Hockey

**Q.2 Who has written the book Sangeet Bal Prakash?**

- Ans**
- 1. Pandit Narayan Rao
  - 2. Vishnu Digambar Paluskar
  - 3. Vishnu Narayan Bhatkhande
  - 4. Bhimsen Joshi

**Q.3 Which of the following rivers originates from the Himalayas?**

- Ans**
- 1. Godavari
  - 2. Tapi
  - 3. Narmada
  - 4. Ganga

**Q.4 Who is the author of the book 'From Plassey to Partition and After : A History of Modern India'?**

- Ans**
- 1. Romila Thapar
  - 2. Devid Hardiman
  - 3. Sekhar Bandyopadhyay
  - 4. Sumit Sarkar

**Q.5 If a 12-year-old is found to be working in a factory manufacturing carpets, which of the following Articles of the Constitution of India will be violated?**

- Ans**
- 1. Article 24
  - 2. Article 25
  - 3. Article 23
  - 4. Article 26

**Q.6 Bihu festival is the main festival of which state?**

- Ans**
- 1. Kerala
  - 2. Punjab
  - 3. Rajasthan
  - 4. Assam

**Q.7 Which of the following playback singers is the recipient of the Karnataka Ratna Award 2005?**

- Ans**
- 1. Sista Janaki
  - 2. Ravindra Jain
  - 3. Pandit Jasraj
  - 4. Bhimsen Joshi

**Q.8 As per article 158, the Governor shall NOT be a member of either House of Parliament or of a House of the Legislature of any State specified in \_\_\_\_\_ Schedule.**

- Ans**
- 1. Seventh
  - 2. Fifth
  - 3. First
  - 4. Third

**Q.9 What is the name of the inflammatory condition that causes cracks, crusting and scaling at the corners of the mouth due to vitamin B2 deficiency?**

- Ans**
- 1. Cheilosis
  - 2. Psoriasis
  - 3. Urticaria
  - 4. Atopic dermatitis

**Q.10** According to the Tea Board of India's report (2021-22), which group of states in India is the largest tea producer?

- Ans**
- 1. Andhra Pradesh and Kerala
  - 2. Himachal Pradesh and Uttarakhand
  - 3. West Bengal and Assam
  - 4. Tamil Nadu and Kerala

**Q.11** Which of the following Delhi sultans introduced two coins, namely silver tanka and copper jital?

- Ans**
- 1. Qutbuddin Aibak
  - 2. Bahlul Lodi
  - 3. Ghiyasuddin Balban
  - 4. Iltutmish

**Q.12** Who founded the Theosophical Society in New York in 1875?

- Ans**
- 1. Naoroji Furdunji and Satyendra Nath Bose
  - 2. Baba Dayal Das and Madan Lal
  - 3. Ramabai Ranade and GK Devadhar
  - 4. Madame HP Blavatsky and Colonel Olcott

**Q.13** During the period of 1947 to 1990, how many five-year plans were completed?

- Ans**
- 1. 6
  - 2. 7
  - 3. 9
  - 4. 8

**Q.14** Name the straight chain alkane having chemical formula  $C_9H_{20}$ , which is used as a research chemical and in making biodegradable detergents.

- Ans**
- 1. Nonane
  - 2. Dodecane
  - 3. Nonadecane
  - 4. Icosane

**Q.15** When you take Lead nitrate powder in a boiling tube and heat it, you will observe the emission of brown fumes that are of \_\_\_\_\_.

- Ans**
- 1. Nitrous oxide
  - 2. Nitric oxide
  - 3. Nitrogen dioxide
  - 4. Dinitrogen trioxide

**Q.16** Who among the following sent Megasthenes to the court of Chandragupta Maurya?

- Ans**
- 1. Antiochus I Soter
  - 2. Alexander III
  - 3. Seleucus I Nicator
  - 4. Antiochus III

**Q.17** Which of the following states is one of those states that have no Panchayati Raj Institution at all?

- Ans**
- 1. Assam
  - 2. Gujarat
  - 3. Nagaland
  - 4. Punjab

**Q.18** In Pradhan Mantri Gramin Awaas Yojana, the cost of unit assistance is shared between Central and State Governments in the ratio \_\_\_\_\_ for the North-Eastern and the Himalayan states.

- Ans**
- 1. 90 : 10
  - 2. 60 : 40
  - 3. 45 : 55
  - 4. 50 : 50

**Q.19** Which of the following is an example of capital receipts?

- Ans**
- 1. Revenue from the sale of government assets
  - 2. Taxes on income
  - 3. Interest on government bonds
  - 4. Grants-in-aid from other governments

**Q.20** 'Drain of Wealth', a critique of the colonial exploitation, was given by which of the following nationalist leaders?

- Ans**
- 1. Dadabhai Naoroji
  - 2. Rajendra Prasad
  - 3. Chakravarti Rajagopalachari
  - 4. Sardar Vallabhbhai Patel

**Q.21** Which of the following is NOT a member of the Aves (birds) class?

- Ans**
- 1. Psittacula
  - 2. Neophron
  - 3. Pteropus
  - 4. Struthio

**Q.22** In January 2023, Koneru Humpy won India's first-ever silver medal at the \_\_\_\_\_ held in Almaty, Kazakhstan.

- Ans**
- 1. FIDE World Chess Championship
  - 2. World Blitz Chess Championship
  - 3. World Correspondence Chess Championship
  - 4. World Rapid Chess Championship

**Q.23** In which month is the Inter Tropical Convergence Zone (ITCZ) located around 20°N-25°N latitude (over the Gangetic plain)?

- Ans**
- 1. May
  - 2. August
  - 3. June
  - 4. July

**Q.24** Mirabai Chanu secured a silver medal at which Commonwealth Games?

- Ans**
- 1. 2010
  - 2. 2014
  - 3. 2022
  - 4. 2018

**Q.25** The New Moore Island is in geographic proximity to:

- Ans**
- 1. Pakistan
  - 2. Myanmar
  - 3. Bangladesh
  - 4. Sri Lanka

- Q.1 Study the given table and answer the question that follows.  
The given table shows the number of students enrolled in different academic faculties of an institution during 2016 – 2019.

Year	Science	Commerce	Humanities
2016	550	457	699
2017	584	554	574
2018	625	332	743
2019	676	444	1223

From 2016 to 2019, what is the difference between the total number of students enrolled in science and that of students enrolled in humanities?

- Ans
- 1. 870
  - 2. 804
  - 3. 912
  - 4. 930

- Q.2 Study the given table answer the question that follows.  
The following table shows the income of a person (in thousand rupees) per annum over the given years.

Year	School Salary	Coaching	Home tuition
2018	132	42	12
2019	148	55	18
2020	166	68	24
2021	178	74	28
2022	196	88	35

What is the average income from school as a salary per year earned by the person over the given years?

- Ans
- 1. ₹1,64,000
  - 2. ₹1,74,000
  - 3. ₹1,58,000
  - 4. ₹1,48,000

- Q.3 Simplify:  
 $[25 - 48 \div 6 + 12 \times 2] + 78 - [5 + 3 \text{ of } (25 - 2 \times 10)]$

- Ans
- 1. 98
  - 2. 90
  - 3. 99
  - 4. 89

Q.4 Consider the following table for total exports of goods of 5 companies over 5 years (in lakhs).

Companies Year	R	S	T	U	V
2012	60	40	15	45	25
2013	30	60	70	15	90
2014	51	25	55	100	110
2015	45	51	20	70	65
2016	24	35	60	55	125

If the ratio of exports to the imports of companies S and U in the year 2015 is 3 : 2 and 1 : 2, respectively, then, the total imports (in ₹ lakhs) of companies S and U together in the year 2015 is:

- Ans
- 1. 121
  - 2. 174
  - 3. 187
  - 4. 157

Q.5 The ratio of expenditure to savings of a woman is 4 : 1. If her income and expenditure are increased by 20% and 10%, respectively, then find the percentage change in her savings.

- Ans
- 1. 40%
  - 2. 50%
  - 3. 60%
  - 4. 30%

Q.6 A man loses 28% by selling an article for ₹144. If he sells it for ₹288, what will be his gain/loss percentage?

- Ans
- 1. Gain, 41%
  - 2. Loss, 43%
  - 3. Gain, 44%
  - 4. Loss, 46%

Q.7 A cylindrical tank of radius 14 cm is full of water. If 616 litres of water are drawn out, then the water level in the tank is dropped by \_\_\_\_\_ m. (Take  $\pi = \frac{22}{7}$ )

- Ans
- 1. 1000
  - 2. 100
  - 3. 1
  - 4. 10

Q.8 Find the diameter (in cm) of a circle whose circumference is equal to the sum of the circumferences of two circles of radii 12 cm and 16 cm.

- Ans
- 1. 32
  - 2. 56
  - 3. 64
  - 4. 28

Q.9 In a quadrilateral ABCD,  $AB = BC$ ,  $AD = DC$ .  $\angle ABD = 68^\circ$ ,  $\angle ADB = (2y-7)^\circ$ ,  $\angle BDC = 33^\circ$ ,  $\angle DBC = (3x+2)^\circ$ . Then the value of  $2x+3y$  is:

- Ans
- 1. 108
  - 2. 144
  - 3. 104
  - 4. 118

Q.10 If  $\cot^2 \theta - 2 \cos^2 \theta = 0$ , ( $0^\circ < \theta < 90^\circ$ ), then the value of  $\theta$  is:

- Ans
- 1.  $45^\circ$
  - 2.  $60^\circ$
  - 3.  $90^\circ$
  - 4.  $30^\circ$

Q.11 The relation between  $K_1$  and  $K_2$  for which the system of linear equations  $K_1x + 3y = 8$  and  $4x + K_2y = 16$  represents coincident lines, is:

- Ans
- 1.  $K_2 = 3K_1$
  - 2.  $K_2 + 3K_1 = 0$
  - 3.  $K_2 = K_1$
  - 4.  $K_1 + K_2 = 0$

Q.12 Two pipes X and Y can fill a tank in 14 hours and 21 hours, respectively. Both pipes are opened simultaneously to fill the tank. In how many hours will the empty tank be filled?

- Ans
- 1.  $8\frac{2}{5}$  hours
  - 2.  $6\frac{2}{5}$  hours
  - 3.  $7\frac{2}{5}$  hours
  - 4.  $5\frac{2}{5}$  hours

Q.13 The two circles intersect at two points P and Q. PR and PS are diameters of the two circles. What is  $\angle PQR$  ?

- Ans
- 1.  $90^\circ$
  - 2.  $0^\circ$
  - 3.  $45^\circ$
  - 4.  $60^\circ$

Q.14 Naman borrows a sum of ₹3,48,020 at the rate of 8% per annum simple interest. At the end of the first year, he repays ₹15,090 towards return of principal amount borrowed. If Naman clears all pending dues at the end of the second year, including interest payment that accrued during the first year, how much does he pay (in ₹) at the end of the second year?

- Ans
- 1. 3,79,386
  - 2. 3,87,406
  - 3. 3,88,931
  - 4. 3,92,733



Q.15 If  $x = p \sec A \cos B$ ,  $y = q \sec A \sin B$  and  $z = r \tan A$ , what is the value of the following expression?  $\frac{x^2}{p^2} + \frac{y^2}{q^2} - \frac{z^2}{r^2}$

Ans  1. 1

2.  $p^2 + q^2 - r^2$

3.  $p^2 - q^2 + r^2$

4. 0

Q.16 The value of  $(x + y)^2 + (x - y)^2$  is equal to:

Ans  1.  $2(x + y)^2$

2.  $2(x^2 + y^2)$

3.  $(2x + 2y)^2$

4.  $4xy$

Q.17 A policeman noticed a thief at some distance. The policeman started running to catch the thief and the thief also started running at the same time. The speed of both policeman and the thief was 12 km per hour and 10 km per hour, respectively. It took 30 minutes for the policeman to catch the thief. Find the initial distance (in metres) between them.

Ans  1. 500

2. 600

3. 1000

4. 100

Q.18 A circular arc whose radius is 14 cm, makes an angle of  $45^\circ$  at the centre. Find the perimeter (in cm) of the sector. (Use  $\pi = \frac{22}{7}$ )

Ans  1. 38

2. 28

3. 39

4. 34

Q.19 The given table shows the number of clerical and officer cadre employees recruited by four different banks A, B, C and D from 2011 to 2014.

Year	A		B		C		D	
	Officer	Clerk	Officer	Clerk	Officer	Clerk	Officer	Clerk
2011	260	458	255	460	205	428	265	470
2012	310	569	286	584	230	539	246	554
2013	350	730	321	725	340	740	361	725
2014	400	890	452	845	380	850	482	860

Compute the ratio of the number of officer cadre employees of bank A to the number of officer cadre employees of bank C.

- Ans
- 1. 6 : 5
  - 2. 7 : 8
  - 3. 5 : 6
  - 4. 8 : 7

Q.20 If  $m$  is even, then  $(8^m - 1)$  is divisible by:

- Ans
- 1. 63
  - 2. 42
  - 3. 65
  - 4. 8

Q.21 Find the value of 'k' for which the system of equations  $4x+6y=7$  and  $6x+(k+4)y-21=0$  has a unique solution.

- Ans
- 1.  $k = 5$
  - 2.  $k \neq 5$
  - 3.  $k = 7$
  - 4.  $k \neq 7$

Q.22 During a new-year sale, a shopkeeper offers a discount scheme to his customers, 'Buy 5 Sweaters, Get 2 Sweaters Free'. Find the effective percentage discount given by the shopkeeper.

- Ans
- 1.  $28\frac{4}{7}\%$
  - 2. 25%
  - 3.  $22\frac{2}{9}\%$
  - 4. 30%

Q.23 In the 8<sup>th</sup> class, consisting of 30 students, a Mathematics test was taken. 10 students had an average score of 90. The other students had an average score of 75. What is the average score of the whole class?

- Ans
- 1. 78
  - 2. 80
  - 3. 76
  - 4. 74

Q.24 Find the value of  $\tan 72^\circ - \tan 27^\circ - \tan 72^\circ \tan 27^\circ$ .

- Ans
- 1. -1
  - 2. 1
  - 3. -2
  - 4. 0

Q.25 If  $A:B = 6 : 8$  and  $B:C = 5 : 11$ , then  $A:B:C$  is:

- Ans
- 1. 11:23:14
  - 2. 14:31:25
  - 3. 15:32:44
  - 4. 15:20:44

Section : English Comprehension

Q.1 Select the option that can be used as a one-word substitute for the given group of words.

One who eats human flesh.

- Ans
- 1. Scavengers
  - 2. Herbivores
  - 3. Cannibal
  - 4. Omnivores

Q.2 Select the most appropriate option to substitute the underlined part of the following sentence.  
My brother always received the lion's share of every meal that we had.

- Ans
- 1. a very small part
  - 2. the pet's share
  - 3. the last bite
  - 4. the major portion

Q.3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
He and his friends / does not / want to / attend the meeting.

- Ans
- 1. does not
  - 2. want to
  - 3. attend the meeting
  - 4. He and his friends

Q.4 Select the most appropriate option that can substitute the underlined part in the following sentence.  
We all have to pull our socks up for the upcoming Board exam, if we want to get outstanding grades.

- Ans
- 1. act in a proper manner
  - 2. work harder than before
  - 3. calm down impudent contempt
  - 4. revive interest in old matters

Q.5 The following sentence has been divided into four segments. Identify the segment in which the article has been used INCORRECTLY.  
In the recent past, the IT industry has emerged / as a major contributor to an industry revenue / as well as employment / opportunity provider in the country.

- Ans
- 1. opportunity provider in the country.
  - 2. In the recent past, the IT industry has emerged
  - 3. as a major contributor to an industry revenue
  - 4. as well as employment

Q.6 Select the most appropriate ANTONYM of the given word.  
Nominal

- Ans
- 1. Nasty
  - 2. Sound
  - 3. Constant
  - 4. Significant

Q.7 Select the sentence that does NOT have a spelling error.

- Ans
- 1. There were no intermittent showers in the city, as was predicted during the whether forecast.
  - 2. She is very particular about pronunciation in her classes.
  - 3. The movie was very successful in the urban areas, but not among rural audiences.
  - 4. There wedding was during the summer, which is why we didn't attend it.

Q.8 Select the option that expresses the following sentence in passive voice.  
He had cleaned the bathroom.

- Ans
- 1. The bathroom has cleaned by him.
  - 2. The bathroom had cleaned by him.
  - 3. The bathroom had been cleaned by him.
  - 4. The bathroom has been cleaned by him.

Q.9 Select the most appropriate option to substitute the underlined segment in the given sentence.  
Ashoka was the greatest than all the Mauryan Emperors .

- Ans
- 1. all Mauryan Emperors
  - 2. of the Mauryan Emperors
  - 3. to all another Mauryan Emperors
  - 4. to other Mauryan Emperors

Q.10 Select the most appropriate ANTONYM of the given word.  
Concede

- Ans
- 1. Surrender
  - 2. Battle
  - 3. Avow
  - 4. Deny

Q.11 Identify the INCORRECTLY spelt word in the following sentence.  
Parul is known as a rigteous and honest lady.

- Ans
- 1. rigteous
  - 2. known
  - 3. lady
  - 4. honest

Q.12 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

P- for a  
Q- exercise daily  
R- one must  
S- good body

- Ans
- 1. PRQS
  - 2. PRSQ
  - 3. RQPS
  - 4. PQRS

Q.13 Select the most appropriate ANTONYM of the given word.  
Bombastic

- Ans
- 1. Simple
  - 2. Wicked
  - 3. Elevated
  - 4. Pastoral

Q.14 Select the most appropriate ANTONYM of the given word.  
Forgive

- Ans
- 1. Unburden
  - 2. Requite
  - 3. Clear
  - 4. Loathe

Q.15 Select the most appropriate synonym of the word in brackets to fill in the blank.  
He said that he lacks the \_\_\_\_\_ to stand in a queue. (patience)

- Ans
- 1. relevance
  - 2. elegance
  - 3. endurance
  - 4. acceptance

Q.16 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.  
(a) the Industrial Revolution denotes  
(b) and continued until the middle of the 19<sup>th</sup> century  
(c) a significant period of social, economic and technological revolution  
(d) that commenced in the latter part of the 18<sup>th</sup> century

- Ans
- 1. dcba
  - 2. acdb
  - 3. abcd
  - 4. cadb

Q.17 Select the most appropriate option to substitute the underlined segment in the given sentence.  
The ship launched out on a journey by water or sea of discovery.

- Ans
- 1. voyage
  - 2. rendezvous
  - 3. verso
  - 4. vespers

Q.18 Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.  
The pool was too \_\_\_\_\_ at this end for kids to play. [SHALLOW]

- Ans
- 1. green
  - 2. blue
  - 3. deep
  - 4. cold

Q.19 Select the option that can substitute/replace the bracketed word correctly and complete the sentence.

I said I (don't) understand.

- Ans
- 1. doesn't
  - 2. am doing
  - 3. didn't
  - 4. done

**Q.20** Select the option that correctly expresses the given sentence in passive voice.  
Why didn't she bring her son to my house?

- Ans**
- 1. Why wasn't her son brought by her to my house?
  - 2. Why isn't her son brought to my house?
  - 3. Why wasn't her son brought to my house?
  - 4. Why isn't her son brought by you to my house?

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We naturally seek the company of those whose (1) \_\_\_\_\_ are the same as our own. Fools do not like the (2) \_\_\_\_\_ of wise men, and wise men avoid fools. Serious-minded people do not find much in common with (3) \_\_\_\_\_ folk, and vice versa. Sinners feel uncomfortable with (4) \_\_\_\_\_ and do not seek their company. We can, therefore, as a rule, judge a man's (5) \_\_\_\_\_ by the company he keeps.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. organisations
  - 2. institutes
  - 3. apathy
  - 4. tastes

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We naturally seek the company of those whose (1) \_\_\_\_\_ are the same as our own. Fools do not like the (2) \_\_\_\_\_ of wise men, and wise men avoid fools. Serious-minded people do not find much in common with (3) \_\_\_\_\_ folk, and vice versa. Sinners feel uncomfortable with (4) \_\_\_\_\_ and do not seek their company. We can, therefore, as a rule, judge a man's (5) \_\_\_\_\_ by the company he keeps.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. company
  - 2. culture
  - 3. serious
  - 4. antagonist

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We naturally seek the company of those whose (1) \_\_\_\_\_ are the same as our own. Fools do not like the (2) \_\_\_\_\_ of wise men, and wise men avoid fools. Serious-minded people do not find much in common with (3) \_\_\_\_\_ folk, and vice versa. Sinners feel uncomfortable with (4) \_\_\_\_\_ and do not seek their company. We can, therefore, as a rule, judge a man's (5) \_\_\_\_\_ by the company he keeps.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. solemn
  - 2. thoughtful
  - 3. grave
  - 4. frivolous

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We naturally seek the company of those whose (1) \_\_\_\_\_ are the same as our own. Fools do not like the (2) \_\_\_\_\_ of wise men, and wise men avoid fools. Serious-minded people do not find much in common with (3) \_\_\_\_\_ folk, and vice versa. Sinners feel uncomfortable with (4) \_\_\_\_\_ and do not seek their company. We can, therefore, as a rule, judge a man's (5) \_\_\_\_\_ by the company he keeps.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. knave
  - 2. rowdy
  - 3. saints
  - 4. commoners

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We naturally seek the company of those whose (1) \_\_\_\_\_ are the same as our own. Fools do not like the (2) \_\_\_\_\_ of wise men, and wise men avoid fools. Serious-minded people do not find much in common with (3) \_\_\_\_\_ folk, and vice versa. Sinners feel uncomfortable with (4) \_\_\_\_\_ and do not seek their company. We can, therefore, as a rule, judge a man's (5) \_\_\_\_\_ by the company he keeps.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. futurities
  - 2. character
  - 3. heirloom
  - 4. legacy

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## Combined Graduate Level Examination 2024 Tier I

Exam Date	25/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** The position of how many letters will remain unchanged if each of the letters in the word 'DOWNSIZE' is re-arranged in the English alphabetical order from left to right?

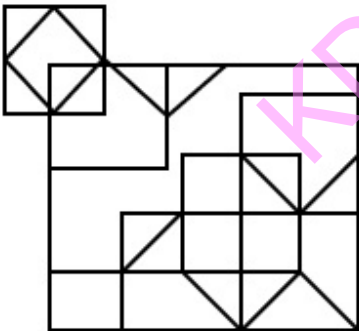
- Ans
- 1. Four
  - 2. Three
  - 3. Two
  - 4. One

**Q.2** 19 is related to 76 following a certain logic. Following the same logic, 27 is related to 108. To which of the following is 49 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. 190
  - 2. 198
  - 3. 202
  - 4. 196

**Q.3** How many triangles are there in the given figure?



- Ans
- 1. 14
  - 2. 17
  - 3. 18
  - 4. 15

**Q.4** Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

C A R E T \_ R C A \_ E T C R C A R \_ T C R \_ A R E T \_ R C A

- Ans
- 1. CRCCE
  - 2. CRCEC
  - 3. CERCC
  - 4. CRECC



Q.5 'LISP' is related to 'ORHK' in a certain way based on the English alphabetical order. In the same way, 'WAND' is related to 'DZMW'. To which of the following is 'BOTE' related, following the same logic?

- Ans
- 1. YKFU
  - 2. YMHV
  - 3. YKFW
  - 4. YLGV

Q.6 Select the number that will come in the place of the question mark(?), if '+' and '-' are interchanged and 'x' and '÷' are interchanged

$$61 - 42 \times 6 \div 9 + 27 = ?$$

- Ans
- 1. 89
  - 2. 84
  - 3. 101
  - 4. 97

Q.7 What will come in place of the question mark (?) in the following equation if '÷' and '-' are interchanged and 'x' and '+' are interchanged?

$$2 \times 16 \div 36 + 42 - 6 = ?$$

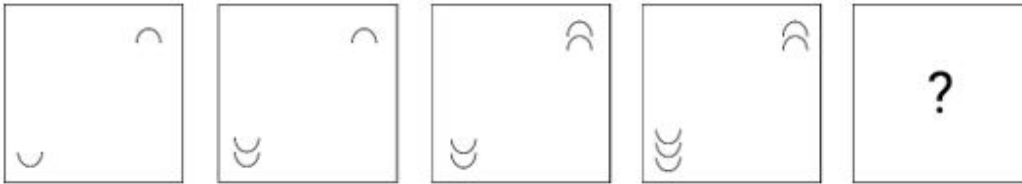
- Ans
- 1. -234
  - 2. -246
  - 3. -216
  - 4. -280

Q.8 Which of the following terms will replace the question mark (?) in the given series?  
AEYT, CGWR, EIUP, ?, IMQL

- Ans
- 1. GKSN
  - 2. GLTN
  - 3. GKTN
  - 4. GLSN

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Q.9 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans

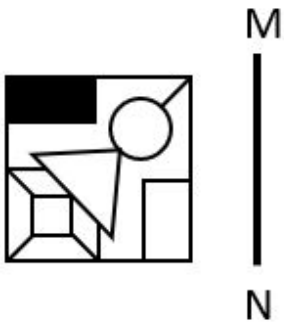
- 1.
- 2.
- 3.
- 4.

Q.10 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans
- 1. UOW
  - 2. IAK
  - 3. PJR
  - 4. LFN

Q.11 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



Ans

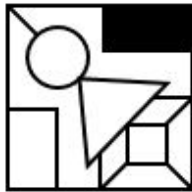
X 1.



X 2.



✓ 3.

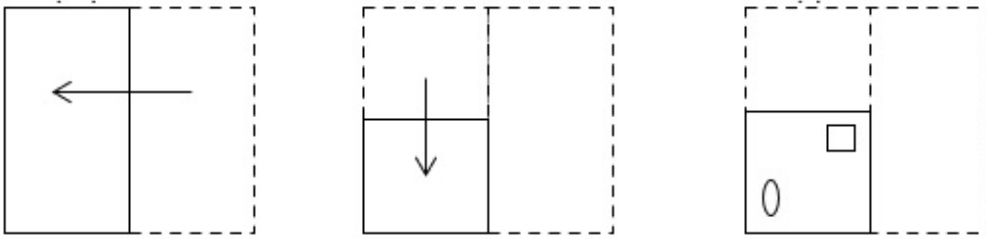


X 4.

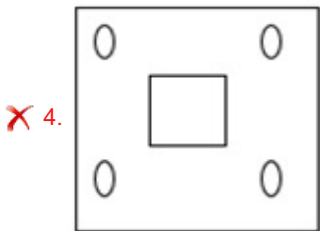
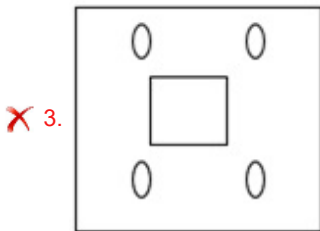
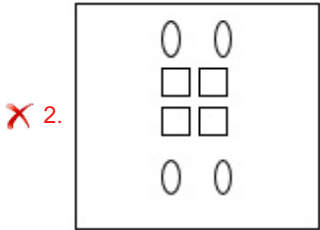
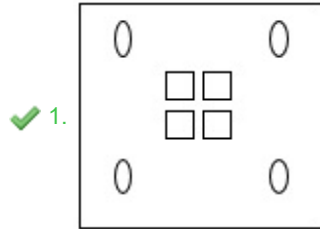


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Q.12 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans



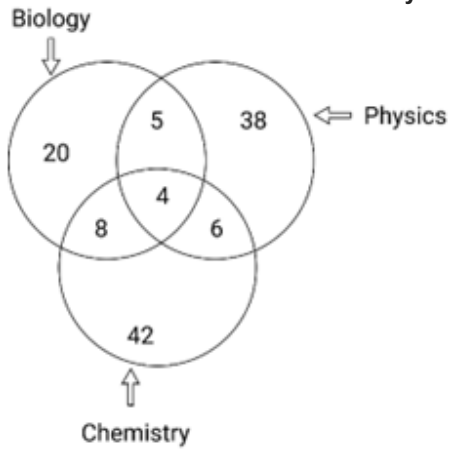
Q.13 Which of the following numbers will replace the question marks (?) in the given series?  
88, 78, 70, 64, 60, ?, ?

- Ans
- ✗ 1. 56, 56
  - ✗ 2. 56, 54
  - ✗ 3. 58, 56
  - ✓ 4. 58, 58

Q.14 'Tame' is related to 'Wild' in the same way as 'Adjacent' is related to '\_\_\_\_\_'.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- ✗ 1. Close
  - ✓ 2. Distant
  - ✗ 3. Accommodating
  - ✗ 4. Neighbouring

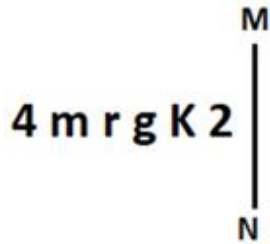
Q.15 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of students who like to study different subjects.



What is the difference between the number of students who like to study all the three subjects and that of students who like to study biology only?

- Ans
- ✓ 1. 16
  - ✗ 2. 3
  - ✗ 3. 19
  - ✗ 4. 17

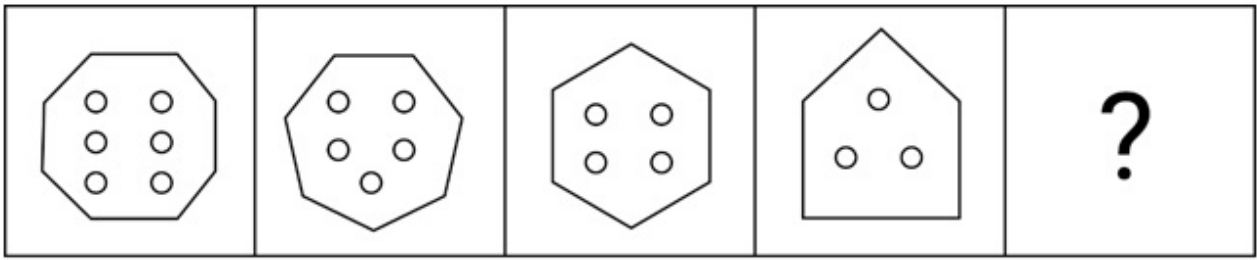
Q.16 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- ✓ 1. 2 K g 1 m 4
  - ✗ 2. 2 K g 1 w 4
  - ✗ 3. 2 K g 1 m 4
  - ✗ 4. 2 K g 1 m 4

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Q.17 Select the figure from among the given options that can replace the question mark (?) in the following series.

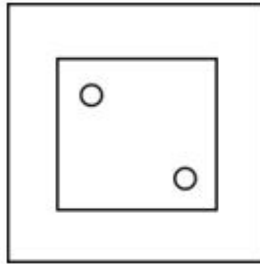


Ans

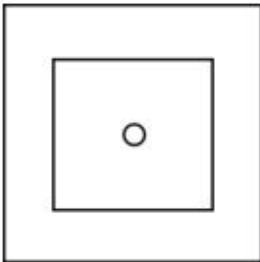
✗ 1.



✓ 2.



✗ 3.



✗ 4.



Q.18 Two different positions of the same dice with faces 9, 2, 5, 3, 8 and 6 are shown below. Select the number that will be on the face opposite to the one having 2.



Ans ✗ 1. 6

✗ 2. 9

✓ 3. 3

✗ 4. 5

Q.19 In a certain code language, 'BREAK' is coded as '57123' and 'BROKE' is coded as '91753'. What is the code for 'A' in that language?

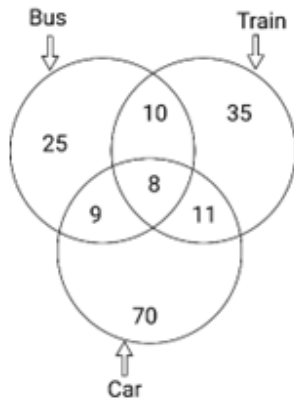
Ans ✓ 1. 2

✗ 2. 5

✗ 3. 9

✗ 4. 3

Q.20 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of persons travelling by different modes of transport.



How many people travel by bus and car both, but NOT by train?

- Ans
- 1. 19
  - 2. 27
  - 3. 9
  - 4. 17

Q.21 14 is related to 42 following a certain logic. Following the same logic, 26 is related to 78. To which of the following is 47 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. 137
  - 2. 135
  - 3. 143
  - 4. 141

Q.22 The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 15 : 195
  - 2. 11 : 143
  - 3. 13 : 169
  - 4. 12 : 152

Q.23 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

45 : 56 :: 62 : 73 :: 19 : ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 31
  - 2. 30
  - 3. 27
  - 4. 28

Q.24 In a certain code language, 'CASE' is written as 'FTBD' and 'CAKE' is written as 'FLBD'. How will 'CALF' be written in that language?

- Ans
- 1. GMDB
  - 2. GBMD
  - 3. GMBD
  - 4. GBDM

**Q.25** In a certain code language,  
A + B means 'A is the husband of B',  
A - B means 'B is the mother of A',  
A × B means 'B is the sister of A' and  
A ÷ B means 'A is the daughter of B'.  
Based on the above, how is Q related to T if 'P + Q × R - S ÷ T'?

- Ans**
- 1. Daughter's husband
  - 2. Daughter's daughter
  - 3. Sister
  - 4. Mother's mother

Section : **General Awareness**

**Q.1** In which year was Ujala Yojana launched?

- Ans**
- 1. 2014
  - 2. 2016
  - 3. 2015
  - 4. 2017

**Q.2** Which of the following schemes of the Government of India is a part of the 'Target Group' approach?

- Ans**
- 1. Drought Prone Areas Programme (DPAP)
  - 2. Marginal Farmers Development Agency (MFDA)
  - 3. Hill Areas Development Programme (HADP)
  - 4. Command Area Development & Water Management Programme (CADP)

**Q.3** How many athletes were selected to represent India at the 1924 Paris Summer Olympics?

- Ans**
- 1. 12
  - 2. 10
  - 3. 11
  - 4. 8

**Q.4** For which of the following tribal music and dance forms was Arjun Singh Dhurve conferred with Tulsi Samman?

- Ans**
- 1. Mardana
  - 2. Pawara
  - 3. Baiga
  - 4. Jhumta

**Q.5** In November 2021, the government declared November 15 as 'Janjatiya Gaurav Divas'. It happens to be the birth anniversary of which of the following freedom fighters?

- Ans**
- 1. Birsa Munda
  - 2. Kanhu Murmu
  - 3. Arjun Munda
  - 4. Veer Narayan Singh

**Q.6** Hola Mohalla is a festival associated with which religion/belief?

- Ans**
- 1. Jainism
  - 2. Islam
  - 3. Buddhism
  - 4. Sikhism



**Q.7** Which of the following Constitutional Amendment Acts led to formation of the Goods and Services Tax Council?

- Ans**
- 1. 102nd Constitutional Amendment Act
  - 2. 100th Constitutional Amendment Act
  - 3. 101st Constitutional Amendment Act
  - 4. 103rd Constitutional Amendment Act

**Q.8** Which acid is used as a souring agent added to vinegar, pickled vegetables, and sauces, and as a raw material for seasoning?

- Ans**
- 1. Citric acid
  - 2. Acetic acid
  - 3. Tartaric acid
  - 4. Formic acid

**Q.9** Which coal is low-grade, brown and soft with high moisture content?

- Ans**
- 1. Metallurgical
  - 2. Lignite
  - 3. Bituminous
  - 4. Anthracite

**Q.10** Which of the following gases plays an important role in welding titanium, aluminium, stainless steel, and magnesium?

- Ans**
- 1. Fluorine
  - 2. Neon
  - 3. Argon
  - 4. Chlorine

**Q.11** Which award was started by the Government of Madhya Pradesh in 1980 to the exponents of Hindustani classical music?

- Ans**
- 1. Kumar Gandharva Samman
  - 2. Tansen Samman
  - 3. Kishore Kumar Samman
  - 4. Iqbal Samman

**Q.12** Where was the first successful textile mill established in India?

- Ans**
- 1. Kolkata
  - 2. Surat
  - 3. Mumbai
  - 4. Jaipur

**Q.13** Which of the following Acts gave the government enormous powers to repress political activities, and allowed detention of political prisoners without trial for two years?

- Ans**
- 1. India Contract Act, 1872
  - 2. Rowlatt Act, 1919
  - 3. Criminal Tribes Act, 1871
  - 4. Indian Slavery Act, 1843

**Q.14** The term Blue Line is associated with which of the following games?

- Ans**
- 1. Football
  - 2. Cricket
  - 3. Table Tennis
  - 4. Ice Hockey

**Q.15** According to the inscriptions, Pushyamitra Shunga was a devotee of which of the following Gods?

- Ans**
- 1. Rama
  - 2. Shiva
  - 3. Krishna
  - 4. Indra

**Q.16** What action was taken by the government to celebrate the achievement of the Green Revolution in agriculture?

- Ans**
- 1. Released a regular salary for the farmers
  - 2. Distributed free food to all the people
  - 3. Released a special stamp, 'Wheat Revolution'
  - 4. Distributed green vegetables to the people

**Q.17** Khudai Khidmatgars, a non-violent movement among the Pathans was started by \_\_\_\_\_.

- Ans**
- 1. Alluri Sitarama Raju
  - 2. Bakht Khan
  - 3. Khan Abdul Ghaffar Khan
  - 4. Sachindra Bakshi

**Q.18** Which of the following Articles of the Indian Constitution mentions that 'The State shall, in particular, direct its policy towards securing that the ownership and control of the material resources of the community are so distributed as best to subserve the common good'?

- Ans**
- 1. Article 39(a)
  - 2. Article 39(b)
  - 3. Article 39(c)
  - 4. Article 39(d)

**Q.19** In the southern ranges of which hills is Mawsynram, which receives the highest rainfall in the world, located?

- Ans**
- 1. Shevaroy hills
  - 2. Mizo hills
  - 3. Khasi hills
  - 4. Naga hills

**Q.20** India finished on which of the following positions in overall medals tally at Commonwealth games 2022?

- Ans**
- 1. 3<sup>rd</sup>
  - 2. 4<sup>th</sup>
  - 3. 1<sup>st</sup>
  - 4. 2<sup>nd</sup>

**Q.21** To gain control over Kannauj the Tripartite Struggle was fought between which of the following dynasties?

- Ans**
- 1. Pratihara, Rashtrakuta and Pala
  - 2. Solanki, Parmar and Chandella
  - 3. Khalji, Tughlaq and Lodhi
  - 4. Pallava, Pandya and Chola

Q.22 Which of the following researchers observed densely stained reticular structures surrounding the nucleus (Hint: Figure)?



- Ans
- 1. William Harvey
  - 2. Francis Crick
  - 3. Camillo Golgi
  - 4. Louis Pasteur

Q.23 Which of the following is NOT correct regarding circular flow of income?

- Ans
- 1. Savings as well as government expenditure are injections to the circular flow.
  - 2. The income of one sector becomes the expenditure of the other.
  - 3. In a circular flow, leakages are equal to injections.
  - 4. The real flow and monetary flow move in a circular manner in an opposite direction.

Q.24 The type of reaction that is typically found when a material that is required for the reaction to proceed, such as a surface or a catalyst, is saturated by the reactants is called a \_\_\_\_\_ order reaction.

- Ans
- 1. first
  - 2. second
  - 3. zero
  - 4. third

Q.25 The registered office of the Sangeet Natak Akademi is at:

- Ans
- 1. Kolkata
  - 2. New Delhi
  - 3. Chennai
  - 4. Mumbai

Section : Quantitative Aptitude

Q.1 The ratio of circumference and diameter of a circle is 3 : 5. If the circumference is 6 cm, then the radius of the circle is:

- Ans
- 1. 10 cm
  - 2. 15 cm
  - 3. 5 cm
  - 4. 1.8 cm

Q.2 The monthly income of Ramesh in year 2021 was ₹18,600 and his monthly expenditure was ₹12,400. In year 2022 his income increased by 15% and his expenditure increased by 8%. Find the percentage increase in his savings.

- Ans
- 1. 29%
  - 2. 32%
  - 3. 25%
  - 4. 27%

Q.3 A class of 30 students appeared in a test. The average score of 12 students is 60, and that of the rest is 80. What is the average score of the class?

- Ans
- 1. 73
  - 2. 70
  - 3. 71
  - 4. 72

Q.4 If  $a^2 + b^2 = 148$  and  $ab = 54$ , then find the value of  $\frac{a+b}{a-b}$ .

- Ans
- ✓ 1.  $\frac{8}{\sqrt{10}}$
  - ✗ 2.  $\frac{2}{\sqrt{10}}$
  - ✗ 3.  $8\sqrt{7}$
  - ✗ 4.  $5\sqrt{3}$

Q.5 The number of pages printed by two printers P1 and P2 over three days are given in the following table. Study the table carefully and answer the question given below.

Days/Printer	P1	P2
Monday	200	250
Tuesday	150	300
Wednesday	225	210

What is the difference between the total number of pages printed by the two printers during these three days?

- Ans
- ✗ 1. 175
  - ✗ 2. 180
  - ✗ 3. 170
  - ✓ 4. 185

Q.6 The value of N in the equation  $9 \times N \text{ of } 4 \div 4 - 15 \times 4 = 12$  is:

- Ans
- ✗ 1. 9
  - ✗ 2. 0
  - ✗ 3. 12
  - ✓ 4. 8

Q.7 In  $\triangle PQR$ , S and T are the midpoints of the sides PQ and PR, respectively. The length of the side QR is 12 cm. If ST is parallel to QR, then find the length (in cm) of ST.

- Ans
- ✗ 1. 4
  - ✗ 2. 10
  - ✓ 3. 6
  - ✗ 4. 8

Q.8 Find the value of  $3\sin 15^\circ - 4\sin^3 15^\circ$ .

- Ans
- ✗ 1. 2
  - ✗ 2.  $\frac{1}{2}$
  - ✓ 3.  $\frac{1}{\sqrt{2}}$
  - ✗ 4.  $\sqrt{2}$

Q.9 Find the gain percentage, given that Aditi sold her scooter for ₹40620 gaining  $\frac{1}{5}$ th of the selling price.

- Ans  1. 10%  
 2. 20%  
 3. 25%  
 4. 35%

Q.10 The single discount equivalent to the discount series of 15%, 20% and 5% is:

- Ans  1. 35.4%  
 2. 20%  
 3. 32%  
 4. 32.5%

Q.11

The sales of two kinds of bicycles B1 and B2 (in lakhs) manufactured by a company over a period of three years are shown in the table below.

Year	B1	B2
2004	195	284
2005	230	300
2006	250	416

From 2004 to 2006, what is the ratio of the total sales of bicycles B1 to the total sales of bicycles B2?

- Ans  1. 27 : 40  
 2. 9 : 10  
 3. 10 : 9  
 4. 40 : 27

Q.12 A tap can fill a cistern in 10 minutes and another tap can empty it in 12 minutes. If both the taps are open, the time (in hours) taken to fill the tank will be:

- Ans  1. 1.5 hours  
 2. 2.5 hours  
 3. 2 hours  
 4. 1 hour

Q.13 The below table shows the number of 1 litre bottles of soft drink produced by three companies during 2016-2020. Study the given information carefully and answer the question that follows.

Year	A (in lakhs)	B (in lakhs)	C (in lakhs)
2016	38,000	43,000	51,000
2017	41,000	52,000	57,000
2018	53,000	65,000	63,000
2019	30,000	35,000	32,000
2020	20,000	25,000	28,000

What is the difference in average production of A and C during 2016-2018 (in lakhs)?

- Ans  1. 7800  
 2. 14,000  
 3. 13,000  
 4. 9500

Q.14 Cindy bought 15 apples and 12 oranges and paid a sum of ₹447 for the purchase. Which of the statements given below is inconsistent with the information given in the previous statement, leading to no possible prices of the two fruits?

- Ans
- 1. Purchased 25 apples and 20 oranges and paid a sum of ₹745
  - 2. Purchased 10 apples and 13 oranges and paid a sum of ₹353
  - 3. Purchased 12 apples and 8 oranges and paid a sum of ₹340
  - 4. Purchased 35 apples and 28 oranges and paid a sum of ₹1,029

Q.15 From a point T, a tangent TP at point P, is drawn to a circle with centre O. A secant TQR (point Q is near to point T) is drawn from the point T.  $\Delta PQR$  is inscribed into the circle by joining the points P, Q and R. Draw lines OQ and OR. If  $\angle PTQ$  is  $27^\circ$  and  $\angle TPQ = 55^\circ$ , what is the degree measure of  $\angle ROQ$ ?

- Ans
- 1. 86
  - 2. 82
  - 3. 98
  - 4. 94

Q.16 If  $x^2 + 1 = x$ , then the value of  $(x^{14} + x^8 + 1)$  is:

- Ans
- 1. 1
  - 2. 0
  - 3. 3
  - 4. 2

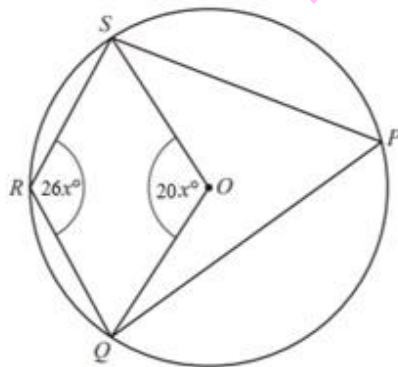
Q.17 A well with 14 cm radius is dug 23 cm deep. Find the volume of the earth taken out of it.

- Ans
- 1.  $14,178 \text{ cm}^3$
  - 2.  $14,108 \text{ cm}^3$
  - 3.  $14,168 \text{ cm}^3$
  - 4.  $15,168 \text{ cm}^3$

Q.18 Pranav borrows a sum of ₹335180 at the rate of 13% per annum simple interest. At the end of the first year, he repays ₹23060 towards return of principal amount borrowed. If Pranav clears all pending dues at the end of the second year, including interest payment that accrued during the first year, how much does he pay (in ₹) at the end of the second year?

- Ans
- 1. 398876
  - 2. 393949
  - 3. 396269
  - 4. 388076

Q.19



NOT TO SCALE

In the figure shown above, quadrilateral PQRS has its vertices on the circumference of the circle with centre O. If  $m\angle QOS = 20x^\circ$  and  $m\angle QRS = 26x^\circ$ , then what is the value of 'x'?

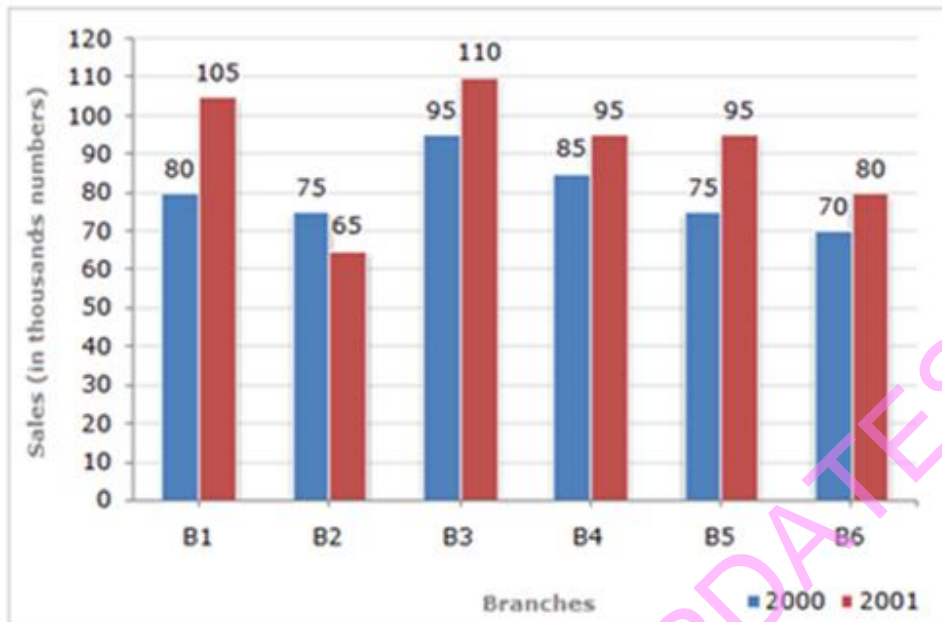
- Ans
- 1. 6
  - 2. 5
  - 3. 4
  - 4. 3

Q.20 Seema walks around a circular field at the rate of 3 rounds per hour, while Priya runs around it at the rate of 8 rounds per hour. They start in the same direction from the same point at 11:54 p.m. They shall first cross each other at:

- Ans
- 1. 12:06 p.m.
  - 2. 12:00 a.m.
  - 3. 12:06 a.m.
  - 4. 11:59 p.m.

Q.21 Study the given bar-graph and answer the question that follows.

The bar-graph shows the sales of books (in thousands) from six branches (B1, B2, B3, B4, B5 and B6) of a publishing company during two consecutive years 2000 and 2001.



What percentage of the average sales of branches B1, B2 and B3 in 2001 is the average sales of branches B1, B3 and B6 in 2000?

- Ans
- 1. 65.25%
  - 2. 87.5%
  - 3. 80.25%
  - 4. 78.5%

Q.22 'x' varies directly with the cube of 'y', and inversely with the square of 'z'. If  $x = \frac{1}{36}$  when  $y = 2$  and  $z = 3$ , then what is the value of  $800x$  when  $y = 3$  and  $z = 5$ ?

- Ans
- 1.  $\frac{9}{800}$
  - 2. 27
  - 3.  $\frac{800}{9}$
  - 4. 9

Q.23 What is the value of  $\left(\frac{5}{\sqrt{3}} - \operatorname{cosec} 60^\circ\right)$ ?

- Ans
- ✓ 1.  $\sqrt{3}$
  - ✗ 2.  $\frac{2}{\sqrt{3}}$
  - ✗ 3.  $3\sqrt{3}$
  - ✗ 4.  $\frac{1}{\sqrt{3}}$

Q.24 Which of the following numbers is divisible by 6?

- Ans
- ✗ 1. 128530
  - ✗ 2. 12581
  - ✓ 3. 438750
  - ✗ 4. 62233

Q.25 If  $\sec\theta + \tan\theta = x$ , then find  $\sin\theta$ .

- Ans
- ✗ 1.  $\frac{x^2 + 1}{1 - x^2}$
  - ✗ 2.  $\frac{x^2 - 1}{1 + 2x^2}$
  - ✓ 3.  $\frac{x^2 - 1}{1 + x^2}$
  - ✗ 4.  $\frac{1 - x^2}{1 + x^2}$

Section : English Comprehension

Q.1 Select the most appropriate homophone to fill in the blank.  
Ruby gave her mother a hug and offered to knead the \_\_\_\_\_.

- Ans
- ✗ 1. flora
  - ✗ 2. flavour
  - ✗ 3. floor
  - ✓ 4. flour

Q.2 Select the most appropriate option to substitute the underlined segment in the given sentence.  
The line, 'Round the rugged rocks the ragged rascal ran' uses the repetition of usually initial consonant sounds in two or more neighbouring words or syllables .

- Ans
- ✓ 1. alliteration
  - ✗ 2. epithet
  - ✗ 3. simile
  - ✗ 4. allegory

Q.3 Select the most appropriate option to fill in the blank.

The mother couldn't \_\_\_\_\_ such an insult from her son in front of the others.

- Ans
- ✗ 1. bier
  - ✗ 2. bare
  - ✗ 3. beer
  - ✓ 4. bear



Q.4 Parts of the following sentence have been given as options. Select the option that contains an error.

While I was walking to the store, my friend calls me and ask for a favour.

- Ans
- 1. While I was walking
  - 2. my friend calls me and ask
  - 3. to the store
  - 4. for a favour

Q.5 Select the correct idiom to substitute the underlined segment in the following sentence.  
Due to her impoverished state, most of her relatives treated her with contempt.

- Ans
- 1. Came in handy
  - 2. Turned up their nose at her
  - 3. Turned the corner at her
  - 4. Gave a wide space to her

Q.6 Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.

She left the party \_\_\_\_\_ because of her parents' strict time restrictions. [late]

- Ans
- 1. exit
  - 2. early
  - 3. small
  - 4. suffer

Q.7 Select the option that can be used as a one-word substitute for the underlined group of words.

The soldier struck the enemy with the short sword fixed onto the end of the gun.

- Ans
- 1. Baron
  - 2. Bayonet
  - 3. Bigot
  - 4. Baton

Q.8 Select the most appropriate option to substitute the underlined word segment in the given sentence.  
I picked up my little clock and it began to dance gracefully.

- Ans
- 1. move gradually
  - 2. lift smoothly
  - 3. chime prettily
  - 4. work agreeably

Q.9 Select the option that expresses the given sentence in passive voice.  
We should clean the house regularly.

- Ans
- 1. The house should have been cleaned regularly by us.
  - 2. The house should be being cleaned regularly by us.
  - 3. The house should be cleaned regularly by us.
  - 4. The house should be clean regularly by us.

Q.10 Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct sequence to form a meaningful sentence.

(P) hard work and perseverance

(Q) no matter how difficult

(O) lead to success

(R) the journey may seem

- Ans
- 1. POQR
  - 2. ORQP
  - 3. RPQO
  - 4. RPOQ

**Q.11** Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct order to form a meaningful and coherent paragraph.  
A. Summative assessment is the assignment of the student's performance at the end of the academic term.  
B. This new pattern ensures that besides just textbook teaching and learning, effective child-teacher interaction is encouraged.  
C. The CBSE envisages two types of examinations, Formative and Summative.  
D. Formative assessment is a part of the teaching-learning process and is done through conversation, quizzes, interviews, projects, assignments, etc.

- Ans**
- 1. B, C, A, D
  - 2. D, A, C, B
  - 3. A, B, C, D
  - 4. C, D, A, B

**Q.12** Select the most appropriate synonym of the word in bold.  
The choice was **judicious** as further events proved.

- Ans**
- 1. prudent
  - 2. silly
  - 3. hasty
  - 4. ridiculous

**Q.13** Select the most appropriate option to substitute the underlined segment in the given sentence.  
The **betrayed** of the country was at last unmasked.

- Ans**
- 1. traitor
  - 2. truant
  - 3. transgressor
  - 4. theist

**Q.14** Select the most appropriate meaning of the given idiom.  
Let the dust settle

- Ans**
- 1. To make use of a situation
  - 2. Wait for the other person to make a move
  - 3. To make a space tidy
  - 4. To wait for a situation to become clear or certain

**Q.15** Select the option that substitutes the **INCORRECTLY** spelt word in the given sentence.  
In any time of crisis, there is always one **mument** that stands out from all the others.

- Ans**
- 1. mumunt
  - 2. mumont
  - 3. momont
  - 4. moment

**Q.16** Select the most appropriate synonym for the underlined word in the given sentence.  
It was his **decency** that he employed him.

- Ans**
- 1. Rudeness
  - 2. Deception
  - 3. Courtesy
  - 4. Perversion

**Q.17** The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.

Please go and meet the chairperson. / She will be / away for the / few next days.

- Ans**
- 1. She will be
  - 2. away for the
  - 3. few next days.
  - 4. Please go and meet the chairperson.

**Q.18** Select the option that expresses the given sentence in active voice.  
His father's arm was bandaged by the kind nurse.

- Ans**
- 1. The kind nurse has bandaged his father's arm.
  - 2. The kind nurse had bandaged his father's arm.
  - 3. The kind nurse bandages his father's arm.
  - 4. The kind nurse bandaged his father's arm.

**Q.19** Read the sentence carefully and select the **ANTONYM** of the underlined word from the given options.  
I heard his suggestion but I am quite unsure about the risks involved in it.

- Ans**
- 1. Thoughtful
  - 2. Interested
  - 3. Certain
  - 4. Doubtful

**Q.20** Select the sentence that contains a spelling error.

- Ans**
- 1. Fermented apple juice is touted to have many health benefits though most are anecdotal and not supported by scientific facts.
  - 2. Intriguing as it is, the house was never sold because it was thought to be haunted.
  - 3. It is important for scientists to acknowledge their humanity and the implications of their inventions.
  - 4. There are many believes about ancient artefacts that some of them are patently not true.

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The rise in global temperature (1)\_\_\_\_\_ already occurred is leading to extreme weather events that bring (2)\_\_\_\_\_ heat waves and droughts, devastating floods and increasingly powerful hurricanes and tropical storms. The combination of these factors means the impact on human health is increasing and is (3)\_\_\_\_\_ accelerate. But there is room for hope, particularly if governments take action now to (4)\_\_\_\_\_ the pledges made at Glasgow in November 2021 and to go further in resolving the climate crisis. WHO is (5)\_\_\_\_\_ governments to lead a just, equitable, and fast phase out of fossil fuels and transition to a clean energy future.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**
- 1. which had
  - 2. that is
  - 3. which have
  - 4. that has

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The rise in global temperature (1)\_\_\_\_\_ already occurred is leading to extreme weather events that bring (2)\_\_\_\_\_ heat waves and droughts, devastating floods and increasingly powerful hurricanes and tropical storms. The combination of these factors means the impact on human health is increasing and is (3)\_\_\_\_\_ accelerate. But there is room for hope, particularly if governments take action now to (4)\_\_\_\_\_ the pledges made at Glasgow in November 2021 and to go further in resolving the climate crisis. WHO is (5)\_\_\_\_\_ governments to lead a just, equitable, and fast phase out of fossil fuels and transition to a clean energy future.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**
- 1. intense
  - 2. mild
  - 3. maximise
  - 4. minor

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The rise in global temperature (1)\_\_\_\_\_ already occurred is leading to extreme weather events that bring (2)\_\_\_\_\_ heat waves and droughts, devastating floods and increasingly powerful hurricanes and tropical storms. The combination of these factors means the impact on human health is increasing and is (3)\_\_\_\_\_ accelerate. But there is room for hope, particularly if governments take action now to (4)\_\_\_\_\_ the pledges made at Glasgow in November 2021 and to go further in resolving the climate crisis. WHO is (5)\_\_\_\_\_ governments to lead a just, equitable, and fast phase out of fossil fuels and transition to a clean energy future.

**SubQuestion No : 23****Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. rarely to
  - 2. likely to
  - 3. barely to
  - 4. hardly to

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The rise in global temperature (1)\_\_\_\_\_ already occurred is leading to extreme weather events that bring (2)\_\_\_\_\_ heat waves and droughts, devastating floods and increasingly powerful hurricanes and tropical storms. The combination of these factors means the impact on human health is increasing and is (3)\_\_\_\_\_ accelerate. But there is room for hope, particularly if governments take action now to (4)\_\_\_\_\_ the pledges made at Glasgow in November 2021 and to go further in resolving the climate crisis. WHO is (5)\_\_\_\_\_ governments to lead a just, equitable, and fast phase out of fossil fuels and transition to a clean energy future.

**SubQuestion No : 24****Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. honour
  - 2. take
  - 3. watch
  - 4. keep

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The rise in global temperature (1)\_\_\_\_\_ already occurred is leading to extreme weather events that bring (2)\_\_\_\_\_ heat waves and droughts, devastating floods and increasingly powerful hurricanes and tropical storms. The combination of these factors means the impact on human health is increasing and is (3)\_\_\_\_\_ accelerate. But there is room for hope, particularly if governments take action now to (4)\_\_\_\_\_ the pledges made at Glasgow in November 2021 and to go further in resolving the climate crisis. WHO is (5)\_\_\_\_\_ governments to lead a just, equitable, and fast phase out of fossil fuels and transition to a clean energy future.

**SubQuestion No : 25****Q.25** Select the most appropriate option to fill in blank number 5.

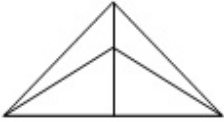
- Ans**
- 1. calling at
  - 2. calling on
  - 3. calling for
  - 4. calling from

## Combined Graduate Level Examination 2024 Tier I

Exam Date	26/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

Q.1 How many triangles are there in the given figure?



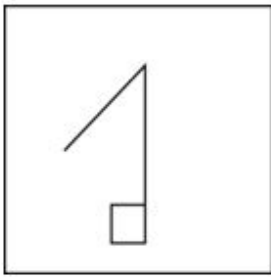
- Ans
- 1. 10
  - 2. 8
  - 3. 11
  - 4. 9

Q.2 Select the option that can replace the question mark (?) in the following series.  
OA33, RD36, UG39, XJ42, ?

- Ans
- 1. CN41
  - 2. AM45
  - 3. BO43
  - 4. BN44

KD JOB UPDATES

Q.3 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



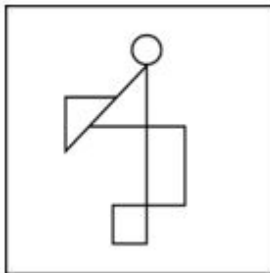
(X)

Ans

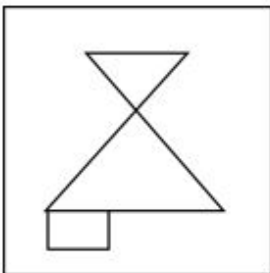
✗ 1.



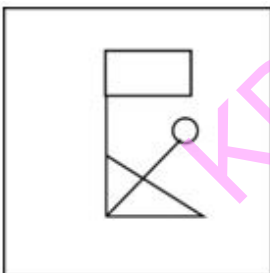
✓ 2.



✗ 3.



✗ 4.



Q.4 In a certain code language, FIGURE is coded as 'VSUGJW' and COPIED is coded as 'YMLSWX'. What will be the code for BLANKET?

- Ans
- ✓ 1. ZPANQWH
  - ✗ 2. ZPMNQHW
  - ✗ 3. ZPANQHW
  - ✗ 4. ZPNAQWH

Q.5 'Simple' is related to 'Basic' in the same way as 'Difficult' is related to '\_\_\_\_\_'.  
Ans

- ✗ 1. Trivial
- ✗ 2. Wrong
- ✗ 3. Imaginary
- ✓ 4. Complex

Q.6 In a certain code language,  
 'A + B' means 'A is the son of B';  
 'A # B' means 'A is the sister of B';  
 'A × B' means 'A is the wife of B'; and,  
 'A @ B' means 'A is the father of B'.

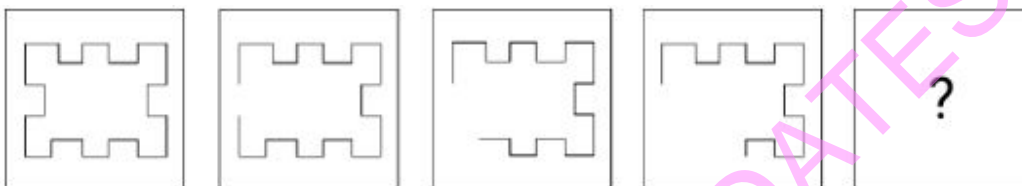
Based on the above, how is M related to T if 'M # N @ L × P + T'?

- Ans
- 1. Son's wife's sister
  - 2. Son's wife's father's sister
  - 3. Son's wife's father
  - 4. Son's wife's father's mother

Q.7 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $229 \div 41 + 502 \times 2 - 44 = ?$

- Ans
- 1. 9281
  - 2. 9812
  - 3. 9218
  - 4. 9182

Q.8 Select the figure from among the given options that can replace the question mark (?) in the following series.



- Ans
- 1.
  - 2.
  - 3.
  - 4.

Q.9 Select the triad in which the numbers are related in the same way as are the numbers of the given triads.  
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(3, 5, 32)  
 (9, 1, 26)

- Ans
- 1. (5, 6, 33)
  - 2. (2, 6, 30)
  - 3. (6, 1, 23)
  - 4. (4, 2, 28)

Q.10 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $4 - 5 \div 9 + 6 \times 2 = ?$

- Ans
- 1. 42
  - 2. 46
  - 3. 36
  - 4. 38

Q.11 Which of the following terms will replace the question mark (?) in the given series?  
OPOR, NOPS, ?, LMRU, KLSV

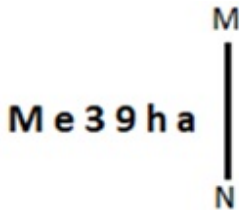
- Ans
- 1. MNQT
  - 2. MNTQ
  - 3. MNQP
  - 4. NMQT

Q.12 Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

Y \_ Y \_ \_ Y \_ T \_ Y \_ Y

- Ans
- 1. YTYTYT
  - 2. TTYTTT
  - 3. TYTYYT
  - 4. TYTYTY

Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans
- 1. e3əhəM
  - 2. ə3əhəM
  - 3. ə3əhəM
  - 4. Me39ha

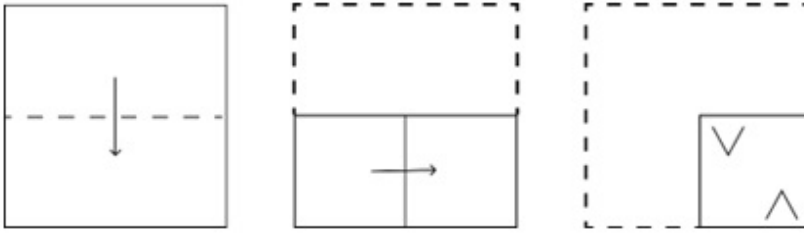
Q.14 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1.  $82 - 46 - 10$
  - 2.  $90 - 99 - 108$
  - 3.  $67 - 45 - 23$
  - 4.  $90 - 51 - 13$

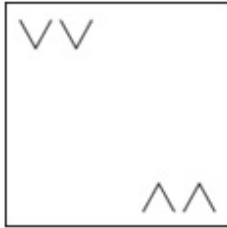


Q.15 A paper is folded and cut as shown below. How will it appear when unfolded?

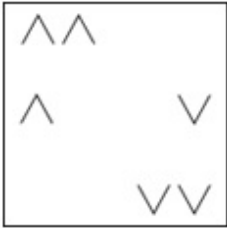


Ans

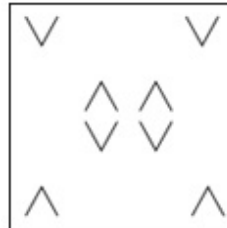
✗ 1.



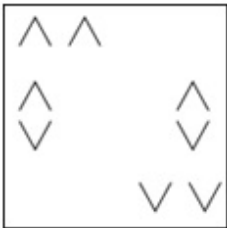
✗ 2.



✓ 3.



✗ 4.



Q.16 Based on the position in the English alphabetical order, three of the following letter-clusters are alike in some manner and one is different. Select the odd letter-cluster.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

Ans ✗ 1. SUZY

✓ 2. MPUT

✗ 3. QSXW

✗ 4. PRVV

Q.17 Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(108, 12, 9)

(114, 19, 6)

Ans ✓ 1. (136, 17, 8)

✗ 2. (144, 14, 8)

✗ 3. (156, 18, 5)

✗ 4. (148, 16, 9)

**Q.18** Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

17 – 19 – 16 – 20; 22 – 24 – 21 – 25

- Ans**
- 1. 15 – 17 – 14 – 18
  - 2. 16 – 18 – 12 – 16
  - 3. 11 – 13 – 10 – 15
  - 4. 18 – 20 – 16 – 14

**Q.19** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

**Statements:**

All pastries are chocolates.  
Some chocolates are cookies.  
All cookies are cakes.

**Conclusions:**

(I) No pastry is a cake.  
(II) Some cakes are chocolates.

- Ans**
- 1. Only conclusion I follows.
  - 2. Both conclusions I and II follow.
  - 3. Neither conclusion I nor II follows.
  - 4. Only conclusion II follows.

**Q.20** Identify the figure given in the options which when put in place of ? will logically complete the series.

J	L	J	L	J	L	J	L	?
N	R	N	R	N	R	N	R	

- Ans**
- 1. 

J	L
N	R
  - 2. 

J	L
N	R
  - 3. 

J	L
N	R
  - 4. 

J	L
N	R

**Q.21** In a certain code language, 'FRAMED' is coded as '497621' and 'DREAMT' is coded as '769542'. What is the code for 'T' in that language?

- Ans**
- 1. 5
  - 2. 1
  - 3. 4
  - 4. 7

**Q.22** In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements.

**Statements:**

All red are green.

All green are pink.

No pink is blue.

**Conclusions:**

I. No green is blue.

II. Some blue are red.

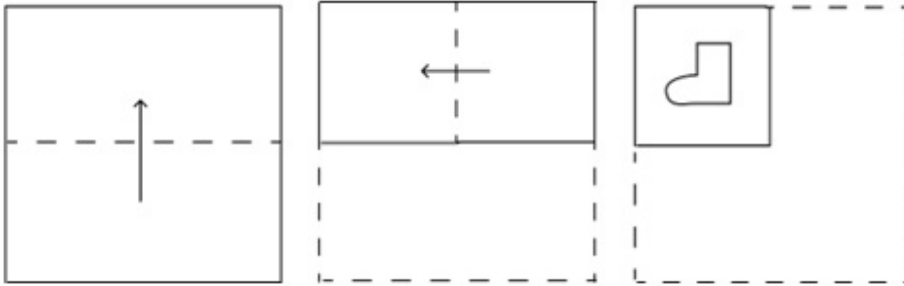
- Ans**
- 1. Only conclusion II follows.
  - 2. Neither conclusion I nor II follows.
  - 3. Only conclusion I follows.
  - 4. Both conclusions I and II follow.

**Q.23** The position of how many letters will remain unchanged if each of the letters in the word 'SPIDER' is arranged in the English alphabetical order?

- Ans**
- 1. Three
  - 2. None
  - 3. Two
  - 4. One

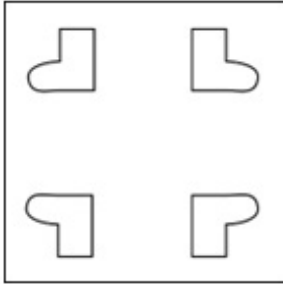
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Q.24 A paper is folded and cut as shown below. How will it appear when unfolded?

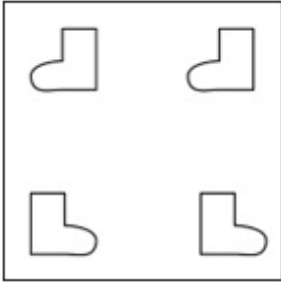


Ans

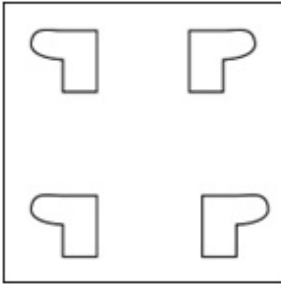
✓ 1.



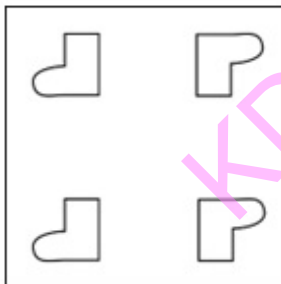
✗ 2.



✗ 3.



✗ 4.



Q.25 Select the number from among the given options that can replace the question mark (?) in the following series.  
30, 22, 36, 75, 178, ?

Ans ✗ 1. 343

✓ 2. 480

✗ 3. 361

✗ 4. 400

Section : General Awareness

Q.1 Which part of Indian Constitution deals with the election of the Vice President?

Ans ✗ 1. Part IV

✗ 2. Part III

✗ 3. Part VI

✓ 4. Part V

**Q.2** In which of the following games is the 'Baulk Line' used?

- Ans**
- 1. Kabaddi
  - 2. Badminton
  - 3. Tennis
  - 4. Kho-Kho

**Q.3** Which of the following statements is NOT correct?

- Ans**
- 1. Light year is the unit of distance.
  - 2. Light year is the distance travelled by light in one year.
  - 3. Light year is the unit of time.
  - 4. Angstrom is unit of length.

**Q.4** What is the economic justification for subsidies in the agriculture sector?

- Ans**
- 1. It is mostly used to provide benefits for rich farmers.
  - 2. It is a part of government expenditure in the service sector.
  - 3. It is an incentive to provide the benefits of advanced technology and decrease the cost of production.
  - 4. It is used to provide benefits for capital goods producers in agriculture.

**Q.5** The Environment (Protection) Act, 1986 empowers the \_\_\_\_\_ to establish authorities charged with the mandate of preventing environmental pollution in all its forms.

- Ans**
- 1. State Government
  - 2. Central Government
  - 3. Supreme Court
  - 4. local municipalities

**Q.6** Which of the following Articles and Parts of the Indian Constitution deal with the State Legislature?

- Ans**
- 1. Articles 214 to 231 in Part VI
  - 2. Articles 168 to 212 in Part VI
  - 3. Articles 243 to 243-O in Part IX
  - 4. Articles 79 to 122 in Part V

**Q.7** The upper portion of the Earth is known as:

- Ans**
- 1. Stratosphere
  - 2. Troposphere
  - 3. Lithosphere
  - 4. Mesosphere

**Q.8** Match the following social reform organisations with their respective founders.

Social reform organisations

Their founders

a) Brahma Samaj

i. Swami Vivekanand

b) Ramakrishna Mission

ii. Atmaram Pandurang

c) Prarthana Samaj

iii. Raja Ram Mohan Roy

d) Arya Samaj

iv. Dayananda Saraswati

- Ans**
- 1. a-ii, b-iii, c-iv, d-i
  - 2. a-iii, b-i, c-ii, d-iv
  - 3. a-iv, b-iii, c-ii, d-i
  - 4. a-i, b-ii, c-iv, d-iii

**Q.9** In West Bengal, how many rice crops are grown in a year?

- Ans**
- 1. Three
  - 2. Two
  - 3. Four
  - 4. One

**Q.10** Which of the following sectors in India faces seasonal unemployment?

- Ans**
- 1. Agriculture
  - 2. Manufacturing
  - 3. Medical
  - 4. Information technology

**Q.11** The revolution of 1857 started in May from which of the following cantonments in India?

- Ans**
- 1. Kanpur
  - 2. Jhansi
  - 3. Lucknow
  - 4. Meerut

**Q.12** Which of the following is a characteristic of both mammals and birds?

- Ans**
- 1. Viviparity
  - 2. Pigmented skin
  - 3. Pneumatic bones
  - 4. Warm blooded

**Q.13** To promote agriculture, Muhammad Tughlaq founded which of the following new ministries?

- Ans**
- 1. Diwan-i-Arz
  - 2. Diwan-i Amir-i kohi
  - 3. Diwan-i-Insha
  - 4. Diwan-i-Risalat

**Q.14** In the context of cell division, which chromosomal behaviour takes place at the leptotene stage?

- Ans**
- 1. Chromosomes are un-synapsed
  - 2. Synapsis is complete
  - 3. Homologous chromosomes pair
  - 4. Chromosomes begin to condense

**Q.15** Arvind Parikh, a Padma Bhushan awardee, plays which of the following musical instruments?

- Ans**
- 1. Sitar
  - 2. Bansuri
  - 3. Tabla
  - 4. Sarangi

**Q.16** Which playback singer was honoured with the Nightingale of Asia Award in 1987?

- Ans**
- 1. Pulapaka Susheela
  - 2. Asha Bhosle
  - 3. Mubarak Begum
  - 4. Kavita Krishnamurthy

Q.17 How many carbon dioxide and water molecules will be there in the product side, if the following equation is made balanced?  
 $C_2H_5OH + O_2 \rightarrow CO_2 + H_2O$

- Ans
- 1. 3 and 6, respectively
  - 2. 1 and 1, respectively
  - 3. 2 and 3, respectively
  - 4. 3 and 2, respectively

Q.18 'Kuki dance' is a folk dance of India that is predominantly performed in \_\_\_\_\_.

- Ans
- 1. Nagaland
  - 2. Karnataka
  - 3. Uttar Pradesh
  - 4. Rajasthan

Q.19 The term 'Microfinancing' was first used in the 1970s during the development of Grameen Bank of Bangladesh, which was founded by \_\_\_\_\_.

- Ans
- 1. Muhammad Yunus
  - 2. Adam Smith
  - 3. Jeremy Bentham
  - 4. Alfred Marshall

Q.20 Nirupama Sanjeev is a famous \_\_\_\_\_ player of India?

- Ans
- 1. badminton
  - 2. swimming
  - 3. tennis
  - 4. chess

Q.21 Who among the following Pallava kings occupied Vatapi (Badami) and defeated the Chalukyas?

- Ans
- 1. Sivaskanda Varman
  - 2. Parameswaravarman
  - 3. Simhavarman
  - 4. Narasimhavarman

Q.22 Who among the following famous badminton players won Singapore Open 2022?

- Ans
- 1. Aparna Popat
  - 2. Saina Nehwal
  - 3. Jwala Gutta
  - 4. PV Sindhu

Q.23 The 'Lokranjan' festival celebrates the folk and tribal culture of which Indian state?

- Ans
- 1. Madhya Pradesh
  - 2. Jharkhand
  - 3. Manipur
  - 4. Meghalaya

Q.24 Which of the following are enumerated in Part IV of the Indian Constitution, from Articles 36 to 51?

- Ans
- 1. Fundamental Rights
  - 2. Fundamental Duties
  - 3. Directive Principles of State Policy
  - 4. the Union

Q.25 The Gandak river is a tributary of which river?

- Ans
- 1. Yamuna river
  - 2. Ganga river
  - 3. Kaveri river
  - 4. Brahmaputra river

Section : Quantitative Aptitude

Q.1 Annual income of five schools (in lakhs)

Source of Income	Schools				
	X	Y	Z	U	V
Tuition Fee	13	26	15	17	16
Semester Fee	43	56	39	89	59
Donation	14	17	14	50	19
Miscellaneous	25	18	29	13	23
Total	95	117	97	169	117

In case of how many schools, the income by semester fee, is less than three times of donation?

- Ans
- 1. 2
  - 2. 5
  - 3. 4
  - 4. 3

Q.2 Study the given table and answer the question that follows.

The following table shows the percentage distribution of students in four different schools during the years 2021-22.

Year	Schools			
	School 1	School 2	School 3	School 4
2021	28	25	24	23
2022	27	28	23	22

If there was a total number of 16,000 and 18,000 students during the years 2021 and 2022 respectively, then the difference in number of students in school 4 in 2022 with respect to 2021 is:

- Ans
- 1. 240
  - 2. 280
  - 3. 180
  - 4. 380

Q.3 For triangles, which of the following statement(s) are true?

- (a) Sum of interior angles is  $180^\circ$ .
- (b) All interior angles can't be equal.
- (c) Can have at the most one obtuse angle.
- (d) Sum of two sides may or may not be equal to the third side.

- Ans
- 1. (a) and (b)
  - 2. (b), (c) and (d)
  - 3. (a), (b) and (d)
  - 4. (a) and (c)



Q.4 One pipe can fill a tank four times as fast as another pipe. If together the two pipes can fill the tank in 48 minutes, the slower pipe alone will be able to fill the tank in:

- Ans
- 1. 192 minutes
  - 2. 288 minutes
  - 3. 240 minutes
  - 4. 144 minutes

Q.5 A number whose fifth part increased by 5 is equal to its third part decreased by 7. Find half of the number.

- Ans
- 1. 45
  - 2. 150
  - 3. 80
  - 4. 60

Q.6 What is the total surface area of a cone whose curved surface area is  $550 \text{ cm}^2$  and radius is  $7 \text{ cm}$ ? (Take  $\pi = \frac{22}{7}$ )

- Ans
- 1.  $764.71 \text{ cm}^2$
  - 2.  $704.00 \text{ cm}^2$
  - 3.  $682.60 \text{ cm}^2$
  - 4.  $714.05 \text{ cm}^2$

Q.7 Two successive percentage decrease of 25% each is by what percentage less than two successive percentage increase of 25% each? (Round to two decimal places.)

- Ans
- 1. 50%
  - 2. 43.75%
  - 3. 22.22%
  - 4. 56.25%

Q.8 If  $(48^\circ + k)$  is an acute angle and  $\sin(48^\circ + k) = \cos 13^\circ$ , what is the value of  $k$  (in  $^\circ$ )?

- Ans
- 1. 17
  - 2. 23
  - 3. 29
  - 4. 37

Q.9 If the angles of a triangle are in the ratio 7 : 8 : 3, then the value of the largest angle is:

- Ans
- 1.  $120^\circ$
  - 2.  $80^\circ$
  - 3.  $100^\circ$
  - 4.  $60^\circ$

Q.10 Evaluate the given expression.  $\frac{5}{1+\cot^2\theta} + \frac{3}{1+\tan^2\theta} + 2\cos^2\theta$

- Ans
- 1. 0
  - 2. 3
  - 3. 5
  - 4. 2

Q.11

Study the below table and answer the question that follows.

	2017	2018	2019	2020	2021
Company P	2000	4000	2000	3000	4000
Company Q	1500	3000	1500	3000	3000
Company R	1400	2000	2000	3000	3000

For which of the following pairs of years are the total exports from the three companies together, equal?

- Ans
- 1. 2020 and 2021
  - 2. 2018 and 2019
  - 3. 2017 and 2018
  - 4. 2018 and 2020

Q.12 The following figure shows the production of mobiles in lakh units of four cities in different years. Study the figure and answer the question that follows.



What is the ratio between the average production in Delhi and Kolkata during the period of 2019 to 2022?

- Ans
- 1. 13 : 9
  - 2. 13 : 7
  - 3. 11 : 7
  - 4. 11 : 9

Q.13 In a room, there are some chairs and some people. If on each chair, only one person is seated, then there is no chair for exactly one person. If on each chair, two persons sit, then there is one vacant chair. What is the number of chairs in the room?

- Ans
- 1. 7
  - 2. 4
  - 3. 3
  - 4. 6

Q.14 A person first increases the price of a commodity by 8% and then he announces a discount of 18%. The actual discount (in%) on the original price is:

- Ans
- 1. 11.44
  - 2. 14.44
  - 3. 9.44
  - 4. 8.44

Q.15 Two athletes are participating in a race on a circular track of 220 m. Ravi runs at the speed of 22 m/s, while Kapil runs at the speed of 11 m/s. They start from the same point, at the same time and in the same direction. After how many seconds will they meet for the first time?

- Ans
- 1. 15 seconds
  - 2. 16 seconds
  - 3. 20 seconds
  - 4. 24 seconds

Q.16 If books bought at prices ranging from ₹200 to ₹260 are sold at prices ranging from ₹250 to 300, what is the greatest possible profit that might be made in selling 25 books?

- Ans
- 1. ₹2,300
  - 2. ₹2,500
  - 3. ₹1,800
  - 4. ₹2,700

Q.17 Three people, A, B and C, invest in a business in the ratio 2 : 3 : 5. It was decided that 9% of the profits will go to charity. If the total profit was ₹2,50,000, then find the share of C in the profit (in ₹).

- Ans
- 1. 1,26,950
  - 2. 1,11,650
  - 3. 1,21,850
  - 4. 1,13,750

Q.18 In a class of 150 students (boys and girls only), the girls are 60. The average weight of boys is 52 kg and that of girls is 48 kg. What is the average weight (in kg) of the whole class?

- Ans
- 1. 50.4
  - 2. 48.8
  - 3. 49.6
  - 4. 51.2

Q.19 If  $\frac{3(16^3 - 6^3)}{16^2 + 6^2 + Q} = 30$ , then find the value of Q.

- Ans
- 1. 96
  - 2. 98
  - 3. 112
  - 4. 108

Q.20  $\Delta ABC$  is a right-angled triangle with  $\angle ABC = 90^\circ$ . If  $m(\overline{AB}) = 28$  cm, and  $m(\overline{BC}) = 96$  cm, find the area (in  $\text{cm}^2$ ) of the circumcircle of  $\Delta ABC$ . (Use  $\pi = 3.14$ .)

- Ans
- 1. 7,850
  - 2. 8,164
  - 3. 7,693
  - 4. 7,536

Q.21 If ₹1,875 becomes ₹2,625 in 4 years, what will ₹24,000 become at the end of 9 years at the same rate of interest, under simple interest?

- Ans
- 1. ₹45,600
  - 2. ₹21,600
  - 3. ₹34,800
  - 4. ₹43,200

Q.22 If A is an acute angle and  $\tan A + \cot A = 2$ , find the value of  $7\tan^8 A - 6\cot^8 A + 8\sec^2 A$ .

- Ans
- 1. 6
  - 2. 17
  - 3. 16
  - 4. 7

Q.23 Given a linear equation in two variables:  $5x + 7y - 8 = 0$ , which of the following linear equations, along with the given equation, forms a system of linear equations having no solution?

- Ans
- 1.  $5x + 7y - 16 = 0$
  - 2.  $7x + 5y - 8 = 0$
  - 3.  $5x - 7y - 8 = 0$
  - 4.  $10x + 14y - 16 = 0$

Q.24 Find the remainder when  $9^{20} + 2$  is divided by 4.

- Ans
- 1. 1
  - 2. 3
  - 3. 0
  - 4. 2

Q.25 From a point A, which is at a distance of 17 cm from the centre C of a circle with radius 8 cm, the pair of tangents AB and AD to the circle are drawn. The area of the quadrilateral ABCD is \_\_\_\_\_  $\text{cm}^2$ .

- Ans
- 1. 192
  - 2. 120
  - 3. 60
  - 4. 360

Section : English Comprehension

Q.1 Select the most appropriate ANTONYM to replace the word in brackets.

The author's writing was so captivating that readers were [enthralled], while the other book left them completely uninterested.

- Ans
- 1. interested
  - 2. agreement
  - 3. bored
  - 4. intrigued

Q.2 Select the most appropriate ANTONYM of the underlined word in the given sentence.

This library building is very high and has 25 floors.

- Ans
- 1. Low
  - 2. Sturdy
  - 3. Hale
  - 4. Elevated

Q.3 In the given question, a statement divided into different segments is given. Rearrange all the segments to form a coherent statement.

O: that the Soviet army had liberated  
P: from the fascist forces came under  
Q: the east European countries  
R: the control of the USSR  
S: after the Second World War

- Ans
- 1. SROPQ
  - 2. POQSR
  - 3. POSQR
  - 4. SQOPR

**Q.4** Select the most appropriate option to substitute the underlined segment in the given sentence.  
Ranveer never has the habit of making a beeline for his academic activities.

- Ans**
- 1. behaving abnormally
  - 2. selecting inconsiderately
  - 3. going straight and quick
  - 4. immediately responding to things

**Q.5** Select the option that expresses the given sentence in passive voice.

**Rohit did not slap Kunal.**

- Ans**
- 1. Kunal was not being slapped by Rohit.
  - 2. Kunal had not been slapped by Rohit.
  - 3. Kunal was not slapped by Rohit.
  - 4. Kunal has not been slapped by Rohit.

**Q.6** Select the most appropriate meaning of the underlined idiom.

The company understood that these small protests of employees regarding low wages were just the tip of the iceberg.

- Ans**
- 1. A small, noticeable part of a problem, the total size of which is non-existent
  - 2. A small, noticeable part of a problem, the total size of which is solvable
  - 3. A large part of a problem which is really noticeable
  - 4. A small, noticeable part of a problem, the total size of which is really much greater

**Q.7** Given below are four jumbled sentences. Select the option that gives their correct logical sequence.

- A. The world's biggest radio telescope is in Puerto Rico.
- B. It is called Arecibo dish.
- C. It was built 40 years ago.
- D. It is also 300 metres across.

- Ans**
- 1. ABDC
  - 2. CBDA
  - 3. DCAB
  - 4. DCBA

**Q.8** Select the option that can be used as a one-word substitute for the given group of words.

One who looks at the bright side of things/situations

- Ans**
- 1. Saint
  - 2. Optimist
  - 3. Pessimist
  - 4. Scientist

**Q.9** Select the INCORRECTLY spelt word.

- Ans**
- 1. Recieve
  - 2. Necessary
  - 3. Possession
  - 4. Accommodate

**Q.10** Select the option that expresses the given sentence in passive voice.

Will you give me an independent project?

- Ans**
- 1. Will you be given an independent project by me?
  - 2. Would an independent project be given?
  - 3. Would I be given an independent project?
  - 4. Will I be given an independent project by you?

Q.11 Select the most appropriate option that can substitute the underlined segment in the given sentence.  
The chair I have bought recently is costly than what I bought last year.

- Ans
- 1. is the costliest
  - 2. is costlier
  - 3. was costly
  - 4. will be costly

Q.12 Select the most appropriate verb / verb phrase to fill in the blank.  
Akshaya \_\_\_\_\_ hard for the entrance exam and received a high score.

- Ans
- 1. studies
  - 2. has studied
  - 3. was studied
  - 4. studied

Q.13 Select the option that can be used as a one-word substitute for the underlined group of words.  
His parents didn't allow him to enrol in the arts college because he is a dabbler in arts, science or literature.

- Ans
- 1. Connoisseur
  - 2. Taciturn
  - 3. Dilettante
  - 4. Ignoramus

Q.14 Select the most appropriate synonym of the underlined word.

He was the most honest and good-hearted man that she had ever met.

- Ans
- 1. Deceptive
  - 2. Sincere
  - 3. Biased
  - 4. Fake

Q.15 Select the most appropriate ANTONYM of the underlined word in the following sentence.

I do not have any access to the information in this matter.

- Ans
- 1. Doubt
  - 2. Reach
  - 3. Clue
  - 4. Denial

Q.16 Parts of the following sentence have been given as options. Select the option that contains an error.  
The teacher asked him not to keep disturbing the class, but it had no affect.

- Ans
- 1. but it had no affect.
  - 2. him not to keep
  - 3. disturbing the class,
  - 4. The teacher asked

Q.17 Select the most appropriate ANTONYM of the given word.  
Profuse

- Ans
- 1. Scarce
  - 2. Humble
  - 3. Prompt
  - 4. Just

**Q.18** Select the most appropriate synonym of the underlined word in the given sentence.  
Even when he was left with plenty of fortune, he lived a frugal life.

- Ans**
- 1. Thrifty
  - 2. Purposeless
  - 3. Extraordinary
  - 4. Hardworking

**Q.19** Select the most appropriate option that can substitute the underlined segment in the given sentence.

RN Right's literary works helped redefine discussions in race relations in America in the mid-20th century.

- Ans**
- 1. by race relations in America
  - 2. beside race relations in America
  - 3. to race relations in America
  - 4. of race relations in America

**Q.20** Select the sentence that contains a spelling error.

- Ans**
- 1. Researchers recommend that pesticides should not be used indiscriminately as they eliminate biodiversity for future generations.
  - 2. Journalism is often the work of painstaking rigour and perseverance that detail the socio-political experiences of our worlds.
  - 3. The venerated singer was also secretive, moody and very intense, famous for erratic and difficult behaviour
  - 4. Elephants are in trouble mainly because people desire ivory trinkets that are made of tusks, often gruesomely killing them to achieve their purpose.

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

2022 sees us entering a third year of the pandemic, and the harm 1 \_\_\_\_\_ children is increasingly evident: A record rise in child poverty. Setbacks to progress on 2 \_\_\_\_\_ vaccinations. Disruption to education for entire generation. That harm 3 \_\_\_\_\_ as an unintended side effect of the world's efforts to manage the crisis. COVID has been a uniquely dis-equalizing crisis. Lopsided 4 \_\_\_\_\_ vaccines aside, learning losses have been greatest among poorest children, and job losses have been disproportionately borne by women and youth. What next for the world's children in the year ahead? As in the past two years, prospects for children will continue to hinge 5 \_\_\_\_\_ on the pandemic and how it is managed.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank No. 1.

- Ans**
- 1. did to
  - 2. done to
  - 3. does to
  - 4. seems to

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

2022 sees us entering a third year of the pandemic, and the harm 1 \_\_\_\_\_ children is increasingly evident: A record rise in child poverty. Setbacks to progress on 2 \_\_\_\_\_ vaccinations. Disruption to education for entire generation. That harm 3 \_\_\_\_\_ as an unintended side effect of the world's efforts to manage the crisis. COVID has been a uniquely dis-equalizing crisis. Lopsided 4 \_\_\_\_\_ vaccines aside, learning losses have been greatest among poorest children, and job losses have been disproportionately borne by women and youth. What next for the world's children in the year ahead? As in the past two years, prospects for children will continue to hinge 5 \_\_\_\_\_ on the pandemic and how it is managed.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank No. 2.

- Ans**
- 1. different
  - 2. irregular
  - 3. routine
  - 4. similar

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

2022 sees us entering a third year of the pandemic, and the harm 1 \_\_\_\_\_ children is increasingly evident: A record rise in child poverty. Setbacks to progress on 2 \_\_\_\_\_ vaccinations. Disruption to education for entire generation. That harm 3 \_\_\_\_\_ as an unintended side effect of the world's efforts to manage the crisis. COVID has been a uniquely dis-equalizing crisis. Lopsided 4 \_\_\_\_\_ vaccines aside, learning losses have been greatest among poorest children, and job losses have been disproportionately borne by women and youth. What next for the world's children in the year ahead? As in the past two years, prospects for children will continue to hinge 5 \_\_\_\_\_ on the pandemic and how it is managed.

**SubQuestion No : 23****Q.23 Select the most appropriate option to fill in blank No. 3.**

- Ans**
- 1. had emerged
  - 2. has emerged
  - 3. have emerged
  - 4. was emerged

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

2022 sees us entering a third year of the pandemic, and the harm 1 \_\_\_\_\_ children is increasingly evident: A record rise in child poverty. Setbacks to progress on 2 \_\_\_\_\_ vaccinations. Disruption to education for entire generation. That harm 3 \_\_\_\_\_ as an unintended side effect of the world's efforts to manage the crisis. COVID has been a uniquely dis-equalizing crisis. Lopsided 4 \_\_\_\_\_ vaccines aside, learning losses have been greatest among poorest children, and job losses have been disproportionately borne by women and youth. What next for the world's children in the year ahead? As in the past two years, prospects for children will continue to hinge 5 \_\_\_\_\_ on the pandemic and how it is managed.

**SubQuestion No : 24****Q.24 Select the most appropriate option to fill in blank No. 4.**

- Ans**
- 1. keeps to
  - 2. access to
  - 3. seems to
  - 4. assess to

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

2022 sees us entering a third year of the pandemic, and the harm 1 \_\_\_\_\_ children is increasingly evident: A record rise in child poverty. Setbacks to progress on 2 \_\_\_\_\_ vaccinations. Disruption to education for entire generation. That harm 3 \_\_\_\_\_ as an unintended side effect of the world's efforts to manage the crisis. COVID has been a uniquely dis-equalizing crisis. Lopsided 4 \_\_\_\_\_ vaccines aside, learning losses have been greatest among poorest children, and job losses have been disproportionately borne by women and youth. What next for the world's children in the year ahead? As in the past two years, prospects for children will continue to hinge 5 \_\_\_\_\_ on the pandemic and how it is managed.

**SubQuestion No : 25****Q.25 Select the most appropriate option to fill in blank No. 5.**

- Ans**
- 1. almost
  - 2. minor
  - 3. foremost
  - 4. most

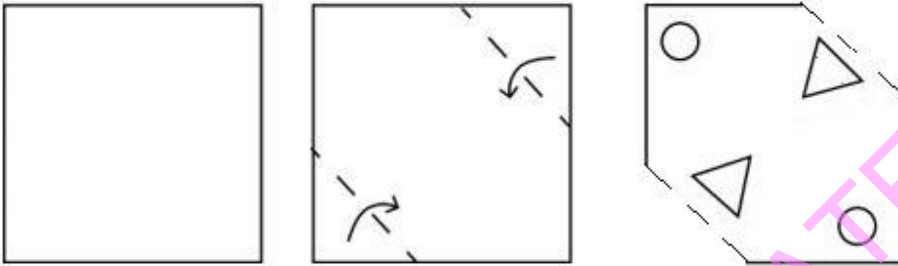


## Combined Graduate Level Examination 2024 Tier I

Exam Date	26/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

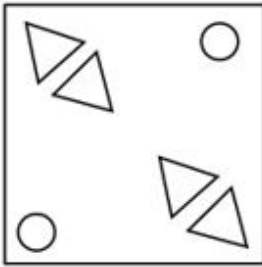
### Section : General Intelligence and Reasoning

**Q.1** A sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last. How would this paper look when unfolded?

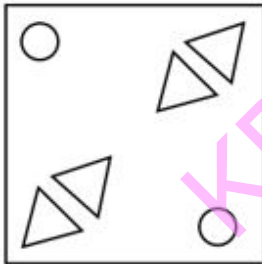


Ans

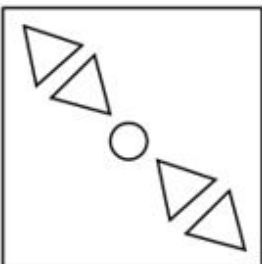
✗ 1.



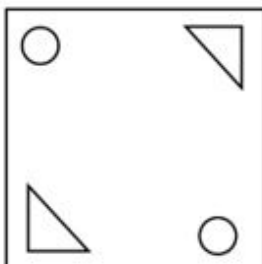
✓ 2.



✗ 3.



✗ 4.



**Q.2** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.  
Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster

- Ans**
- 1. ORTU
  - 2. XZCH
  - 3. MORW
  - 4. PRUZ

**Q.3** In a certain code language, 'D' is coded as '16', 'B' is coded as '4' and 'T' is coded as '400'. How will 'H' be coded in the same language?

- Ans**
- 1. 8
  - 2. 64
  - 3. 25
  - 4. 36

**Q.4** In a certain code language,

'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A × B' means 'A is the wife of B' and  
'A ÷ B' means 'A is the father of B'.

Based on the above, how is I related to H if 'B + R × I - T ÷ H'?

- Ans**
- 1. Father's father
  - 2. Father's sister
  - 3. Brother
  - 4. Father's brother

**Q.5** Each of the letters in the word 'DARKEN' is arranged in the English alphabetical order. How many letters are there in the English alphabetical series between the letter which is second from the left end and the one which is third from the right end in the new letter-cluster thus formed?

- Ans**
- 1. Six
  - 2. Eight
  - 3. Five
  - 4. Seven

**Q.6** Select the number from among the given options that can replace the question mark (?) in the following series.  
176,167,156,147,136, ?

- Ans**
- 1. 127
  - 2. 119
  - 3. 126
  - 4. 124

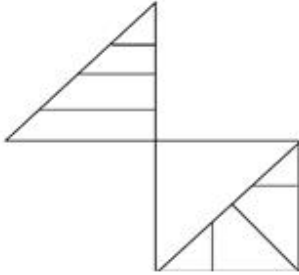
**Q.7** Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
(16, 7, 112)  
(8, 12, 96)

- Ans**
- 1. (12, 5, 65)
  - 2. (14, 9, 128)
  - 3. (13, 7, 96)
  - 4. (15, 8, 120)

Q.8 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.  
ABC\_FG\_JK\_MOPQ\_TUV\_Y

- Ans
- 1. EHLRW
  - 2. DHLSX
  - 3. DHLRW
  - 4. EHLRX

Q.9 How many triangles are there in the figure given below?



- Ans
- 1. 12
  - 2. 8
  - 3. 14
  - 4. 10

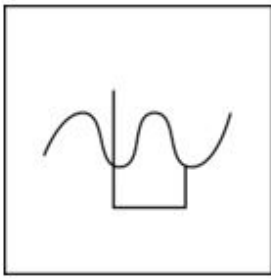
Q.10 In a certain code language, 'FUTURE' is written as 'IXWXUH' and 'ISLAND' is written as 'LVODQG'. How will 'JERSEY' be written in that language?

- Ans
- 1. KGTVGA
  - 2. KHTUHA
  - 3. MHTVGB
  - 4. MHUVHB

Q.11 Which of the four options will replace the question mark (?) in the following series?  
FX32, EV38, DT44, CR50, ?

- Ans
- 1. BP56
  - 2. CR54
  - 3. CQ55
  - 4. DP55

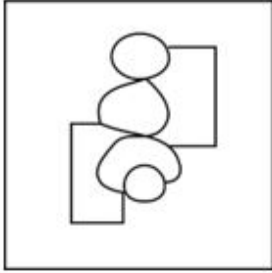
Q.12 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



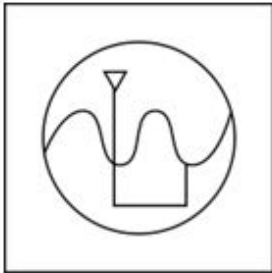
(X)

Ans

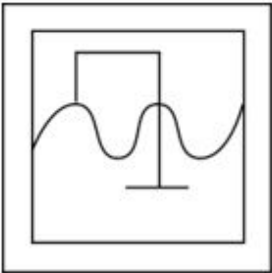
✗ 1.



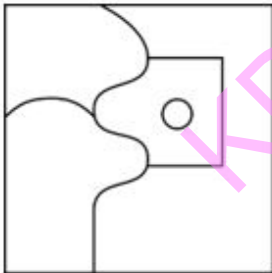
✓ 2.



✗ 3.



✗ 4.



Q.13 In a certain code language, 'bright colour rainbow' is coded as 'mq bj st' and 'sunny bright day' is coded as 'nv bj fm'. How is 'bright' coded in that language?

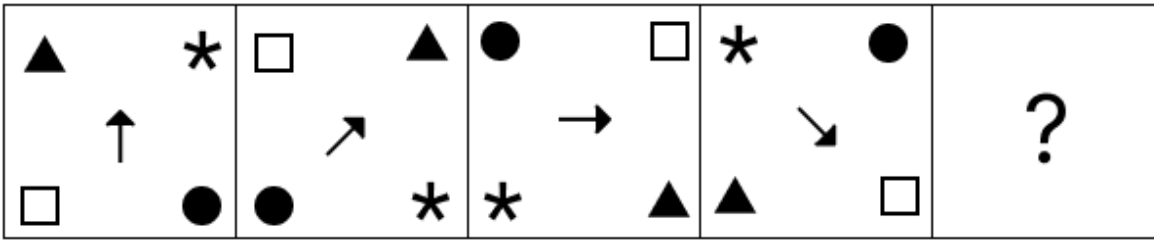
Ans ✓ 1. bj

✗ 2. nv

✗ 3. st

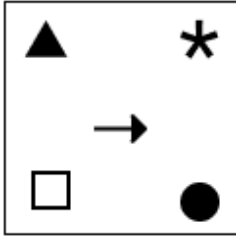
✗ 4. mq

Q.14 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?

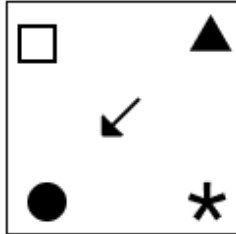


Ans

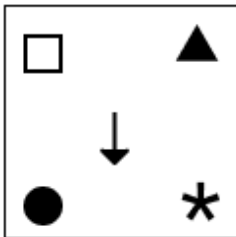
✗ 1.



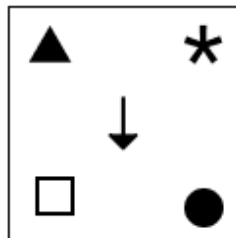
✗ 2.



✗ 3.



✓ 4.



Q.15 The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs except one. Find that odd number pair. (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✓ 1. 34 : 44

✗ 2. 23 : 25

✗ 3. 13 : 16

✗ 4. 35 : 36

Q.16 Six numbers 5, 3, 6, 7, 9 and 2 are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the number on the face opposite to the one having 5.



Ans ✗ 1. 9

✗ 2. 6

✗ 3. 3

✓ 4. 2

Q.17 Which of the following terms will replace the question mark (?) in the given series?  
 QGMW, VCPU, AYSS, ?, KQYO

- Ans
- 1. FUVQ
  - 2. FUXO
  - 3. FVQO
  - 4. FTUO

Q.18 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

48 – 50 – 46 – 52; 37 – 39 – 35 – 41

- Ans
- 1. 21 – 23 – 29 – 27
  - 2. 19 – 17 – 21 – 25
  - 3. 26 – 28 – 24 – 30
  - 4. 15 – 13 – 9 – 19

Q.19 Which figure should replace the question mark (?) if the following series were to be continued?

S	P	F	F	V	S	V	F	N	N	C	V
	V			N			C			P	
	N	C		C	P		P	S		S	F
											?

Ans

1.

C	N	P
	S	
	F	V

2.

C	N	F
	V	
	P	S

3.

F	P	N
	S	
	C	V

4.

V	N	C
	F	
	P	S

Q.20 'Conceal' is related to 'Disclose' in the same way as 'Identical' is related to '\_\_\_\_\_'.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans
- 1. Analogous
  - 2. Homogeneous
  - 3. Similar
  - 4. Distinct

Q.21 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '+' are interchanged?

$$7 + 4 \div 18 - 3 \times 2 = ?$$

- Ans
- 1. 16
  - 2. 20
  - 3. 18
  - 4. 24

Q.22 Select the set in which the numbers are related in the same way as are the numbers of the following set.

$$3 - 20 - 5$$

$$4 - 17 - 3$$

NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans
- 1. 8 - 36 - 11
  - 2. 9 - 77 - 8
  - 3. 11 - 28 - 5
  - 4. 5 - 28 - 9

Q.23 Select the number that will come in the place of the question mark(?), if '+' and '-' are interchanged and 'x' and '+' are interchanged

$$11 \div 8 - 78 \times 6 + 37 = ?$$

- Ans
- 1. 64
  - 2. 58
  - 3. 62
  - 4. 71

Q.24 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion(s) logically follow(s) from the given statements.

Statements: All Grapes are Berries.

Some Berries are Juices.

All Juices are Sodas.

Conclusions: (I) Some Berries are Grapes.

(II) Some Sodas are Berries.

- Ans
- 1. Only conclusion (II) follows
  - 2. Both the conclusions (I) and (II) follow
  - 3. Only conclusion (I) follows
  - 4. Both the conclusions (I) and (II) do not follow

Q.25 Two different positions of the same dice with faces Z, G, M, F, H and S are shown below. Select the letter that will be on the face opposite to the one having G.



- Ans
- 1. H
  - 2. M
  - 3. S
  - 4. F

**Q.1** The concept of 'Independence of judiciary' in the Indian Constitution is taken from the Constitution of:

- Ans**
- 1. Ireland
  - 2. France
  - 3. The USA
  - 4. Britain

**Q.2** Which state in India was the most transformed by the Green Revolution?

- Ans**
- 1. Kerala
  - 2. Maharashtra
  - 3. West Bengal
  - 4. Punjab

**Q.3** Match the points under Column A with those under Column B.

Column A (Subphylum)    Column B (Animal)

- |                 |             |
|-----------------|-------------|
| i. Hexapoda     | a. Daphnia  |
| ii. Crustacea   | b. Mosquito |
| iii. Myriapoda  | c. Limulus  |
| iv. Chelicerata | d. Julus    |

- Ans**
- 1. i-b, ii-c, iii-a, iv-d
  - 2. i-a, ii-b, iii-c, iv-d
  - 3. i-d, ii-c, iii-b, iv-a
  - 4. i-b, ii-a, iii-d, iv-c

**Q.4** Which of the following parts of the mountain will receive the most rainfall from moisture-laden winds?

- Ans**
- 1. Windward side
  - 2. Leeward side
  - 3. Upward side
  - 4. Relief side

**Q.5** In the context of vernier calliper, an internal jaw is used to measure:

- Ans**
- 1. the length correct up to 1 mm
  - 2. the depth of a beaker
  - 3. the length of a rod and diameter of a sphere
  - 4. the internal diameter of a hollow cylinder and pipes

**Q.6** Tsang Po and Jamuna are other names of which river?

- Ans**
- 1. Indus
  - 2. Ganga
  - 3. Narmada
  - 4. Brahmaputra

**Q.7** What is the cost of the 'Nand Baba Milk Mission' scheme launched by the Uttar Pradesh state government in 2023 to provide milk producers the facility of selling their milk at a reasonable price in villages through dairy co-operative societies?

- Ans**
- 1. ₹500 crore
  - 2. ₹1,500 crore
  - 3. ₹2,000 crore
  - 4. ₹1,000 crore



**Q.8** Medini Rai of Chanderi, Hasan Khan of Mewat and Mahmud Lodi joined Rana Sanga with their forces to fight against which of the following Mughal rulers?

- Ans**
- 1. Babur
  - 2. Akbar
  - 3. Aurangzeb
  - 4. Humayun

**Q.9** Which singer from Assam was posthumously awarded the Bharat Ratna in 2019?

- Ans**
- 1. Padmanav Bordoloi
  - 2. Rameshwar Pathak
  - 3. Archana Mahanta
  - 4. Bhupen Hazarika

**Q.10** Belur Math was founded by which of the following social reformers in British India?

- Ans**
- 1. Swami Vivekanand
  - 2. RG Bhandarkar
  - 3. VN Mandlik
  - 4. KT Telang

**Q.11** 'Castling' is related to which of the following sports?

- Ans**
- 1. Table Tennis
  - 2. Billiards
  - 3. Tennis
  - 4. Chess

**Q.12** Who among the following was the shortest-serving Prime Minister of India?

- Ans**
- 1. Chandra Shekhar
  - 2. Gulzarilal Nanda
  - 3. Charan Singh
  - 4. Atal Bihari Vajpayee

**Q.13** Which of the following organisations is NOT a winner of the \$100,000 cash prize as 'Best Small Business: Good Food for All', announced by the United Nations for providing inspiring, diverse and impactful solutions in improving access to healthy and sustainable food?

- Ans**
- 1. Patanjali
  - 2. Edible Routes Private Limited
  - 3. Oorja Development Solutions India Private Limited
  - 4. Taru Naturals

**Q.14** At the 36th National Games, Hashika Ramchandra won six gold medals in which of the following sports?

- Ans**
- 1. Boxing
  - 2. Wrestling
  - 3. Swimming
  - 4. Badminton

**Q.15** Umayalpuram K Sivaraman is an eminent musician associated with which of the following musical instruments?

- Ans**
- 1. Sitar
  - 2. Guitar
  - 3. Dhol
  - 4. Mridangam

**Q.16** Which of the following ports was developed as a Satellite port to relieve the pressure at the Mumbai port?

- Ans**
- 1. New Mangalore Port
  - 2. Marmagao Port
  - 3. Deendayal Port Authority
  - 4. Jawaharlal Nehru Port

**Q.17** In which of the following situations does the government run a deficit budget?

- Ans**
- 1. When the government expenditure and revenue both are zero.
  - 2. When the government expenditure exceeds revenue.
  - 3. When the government expenditure equals revenue.
  - 4. When the government revenue exceeds expenditure.

**Q.18** Rottela Panduga or the Roti Festival is celebrated in which Indian state?

- Ans**
- 1. Karnataka
  - 2. Maharashtra
  - 3. Andhra Pradesh
  - 4. Tamil Nadu

**Q.19** In the context of Mathura school of Art, during which of the following periods were a number of sculptures of Brahmanical deities, such as Kartikeya, Vishnu and Kubera carved?

- Ans**
- 1. Shaka
  - 2. Parthian
  - 3. Satavahana
  - 4. Kushana

**Q.20** Match the terms in column A with their respective properties in column B.

**Column-A**

i. Glucose

ii. Yeast

iii. Glycolysis

iv. Pyruvic acid

**Column-B**

a. Intermediate substance in breakdown of glucose

b. Glucose is converted into pyruvic acid

c. Uses nutrients for fermentation process

d. Best organic substrate for respiration

- Ans**
- 1. i-b, ii-a, iii-d, iv-c
  - 2. i-d, ii-c, iii-b, iv-a
  - 3. i-a, ii-b, iii-c, iv-d
  - 4. i-b, ii-d, iii-a, iv-c

**Q.21** As per the UNDP, the rank of Sri Lanka in the Human Development Index (2022) is:

- Ans**
- 1. 74/189
  - 2. 73/189
  - 3. 75/189
  - 4. 72/189

Q.22 If a bar magnet is hung from a string, in which direction does its north pole point?

- Ans
- 1. West
  - 2. North
  - 3. East
  - 4. South

Q.23 Fugdi dance is associated with which of the following states?

- Ans
- 1. Goa
  - 2. Uttarakhand
  - 3. Uttar Pradesh
  - 4. Kerala

Q.24 Which of the following groups/parties was started in San Francisco, United States of America during the Indian National Movement?

- Ans
- 1. Hindustan Socialist Republican Association
  - 2. Swaraj Party
  - 3. Khilafat Committee
  - 4. Ghadar Party

Q.25 Which writ is issued by a high court or supreme court when a lower court has considered a case going beyond its jurisdiction?

- Ans
- 1. Quo Warrant
  - 2. Habeas Corpus
  - 3. Certiorari
  - 4. Prohibition

Section : Quantitative Aptitude

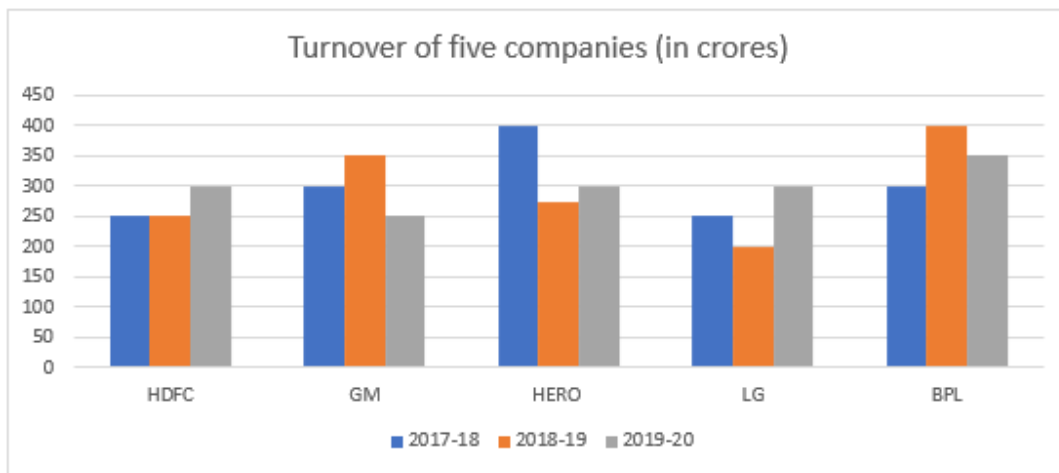
Q.1 The central angle of a sector is  $80^\circ$  and whose length is  $96\pi$ . What is the radius of the circle?

- Ans
- 1. 196 units
  - 2. 204 units
  - 3. 116 units
  - 4. 216 units

Q.2 If  $a : b = c : d = e : f = 5 : 7$ , then what is the ratio  $(3a + 5c + 11e) : (3b + 5d + 11f)$ ?

- Ans
- 1. 7 : 11
  - 2. 3 : 7
  - 3. 5 : 7
  - 4. 11 : 7

Q.3 The given bar graph shows the turnover of five companies (in crores).



What is the difference between the average sales turnover of all the companies put together between the years 2018-2019 and 2019-2020?

- Ans
- 1. ₹6.5 crore
  - 2. ₹2 crore
  - 3. ₹5 crore
  - 4. ₹3.5 crore

Q.4 The five-digit number  $45yz0$  is divisible by 40. What is the maximum possible value of  $(y + z)$ ?

- Ans
- 1. 15
  - 2. 18
  - 3. 16
  - 4. 17

Q.5 Simplify the following expression.  
 $(60 + 64 \div 4 \text{ of } 4) \times \{1000 \div ((10 \text{ of } (3 + 2)) \times 2 \text{ of } 5)\} - 28 + (100 \times 3 \text{ of } 3)$ .

- Ans
- 1. 600
  - 2. 1000
  - 3. 100
  - 4. 500

Q.6 Varun and Raju, working together, can complete a job in 40 hours whereas Varun alone can complete the same job in 50 hours. The number of hours required by Raju to complete the job alone is:

- Ans
- 1. 200
  - 2. 150
  - 3. 170
  - 4. 190

Q.7 The marked price of an electronic watch in a store is ₹15,620 and it is available at a discount of 27%. What is the price (in ₹, to the nearest tens) that a customer pays if he buys from the store?

- Ans
- 1. 12,500
  - 2. 11,400
  - 3. 9,880
  - 4. 10,800

Q.8 If  $p = \frac{\sin A}{1 + \cos A}$ , then  $\frac{\sin A}{1 - \cos A}$  is equal to:

- Ans
- ✓ 1.  $\frac{1}{p}$
  - ✗ 2.  $\frac{1}{1-p}$
  - ✗ 3.  $\frac{1}{p+1}$
  - ✗ 4.  $p-1$

Q.9 Half litre of a solution contains 15% of alcohol. To change the alcohol concentration to 50%, find the quantity of alcohol to be mixed.

- Ans
- ✗ 1. 250 ml
  - ✓ 2. 350 ml
  - ✗ 3. 175 ml
  - ✗ 4. 400 ml

Q.10 The side BC of  $\triangle ABC$  is produced to a point D. If  $AC = BC$  and  $\angle BAC = 70^\circ$ , then find the value of  $2.5\angle ACD - 1.5\angle ABC$ .

- Ans
- ✓ 1.  $245^\circ$
  - ✗ 2.  $235^\circ$
  - ✗ 3.  $225^\circ$
  - ✗ 4.  $230^\circ$

Q.11 If  $8\cot\theta = 7$ , then the value of  $\frac{1 + \sin\theta}{\cos\theta}$  is:

- Ans
- ✓ 1.  $\frac{8 + \sqrt{113}}{7}$
  - ✗ 2.  $\frac{1 + \sqrt{113}}{8}$
  - ✗ 3.  $\frac{7 + \sqrt{113}}{8}$
  - ✗ 4.  $\frac{1 + \sqrt{113}}{7}$

Q.12 If  $x = \sqrt{6} + 2$  and  $y = \sqrt{6} - 2$ , then what is the value of  $\left(\frac{x}{y} + \frac{y}{x}\right)^2 - 3$ ?

- Ans
- ✗ 1. 42
  - ✓ 2. 97
  - ✗ 3. 35
  - ✗ 4. 22

Q.13 In  $\triangle ABC$ ,  $DE \parallel BC$  and  $5AE = 3EC$ . If  $AB = 6.4$  units, then the value of DB (in units) is:

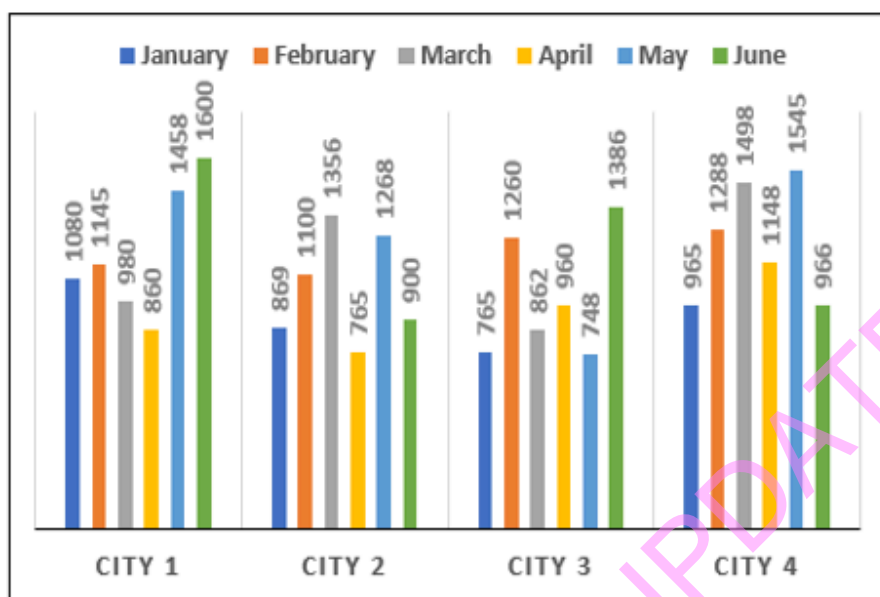
- Ans
- ✗ 1. 2.4
  - ✗ 2. 5
  - ✗ 3. 3.2
  - ✓ 4. 4

Q.14 If  $2a - b = 3$  and  $8a^3 - b^3 = 999$ , then find the value of  $4a^2 - b^2$ .

- Ans
- 1. 63
  - 2. 65
  - 3. 61
  - 4. 67

Q.15 Study the given bar graph and answer the question that follows.

The following bar graph shows the number of deaths that happened in cities 1, 2, 3 and 4 in the months mentioned.



The average number of deaths that occurred during April across all the cities (rounded off to the next integer) is:

- Ans
- 1. 928
  - 2. 934
  - 3. 953
  - 4. 965

Q.16 If the radius and height of a right circular cylinder are 21 cm and 5 cm, respectively, then the total surface area of the cylinder is (use  $\pi = \frac{22}{7}$ ):

- Ans
- 1.  $4312 \text{ cm}^2$
  - 2.  $3432 \text{ cm}^2$
  - 3.  $5212 \text{ cm}^2$
  - 4.  $3816 \text{ cm}^2$

Q.17 In a circle with center O, an arc ABC subtends an angle of  $138^\circ$  at the centre of the circle. The chord AB is produced to a point P. Then, the measure of  $\angle CBP$  is:

- Ans
- 1.  $108^\circ$
  - 2.  $42^\circ$
  - 3.  $111^\circ$
  - 4.  $69^\circ$

Q.18 Raman fixes the sale price of his goods at 16% above the cost price. He sells his goods at 12% less than the fixed price. Find the profit percentage correct to two places of decimal.

- Ans
- 1. 1.07%
  - 2. 2.08%
  - 3. 0.08%
  - 4. 3.01%

Q.19 Study the below data and answer the question that follows.

Partners	Percentage of shares
Jeevan	10%
Kiran	15%
Lokesh	8%
Rasool	22%
Meera	45%

The company has issued 10 lakh shares between its five partners. If Jeevan offers to sell 20,000 of his shares to Meera, how many shares will Meera have?

- Ans
- 1. 5,10,000
  - 2. 4,80,000
  - 3. 4,60,000
  - 4. 4,70,000

Q.20 The table given below shows the distribution of employees in four different companies in 2022.

Company	Number of zones	Average number of employees per zone	Male : Female
A	30	300	3:5
B	35	400	5:3
C	27	500	4:5
D	25	450	5:4

Find the total number of male employees working in company D in 2022.

- Ans
- 1. 6000
  - 2. 6750
  - 3. 6250
  - 4. 6500

Q.21

In a  $\Delta ABC$ , right angled at B if  $\tan C = \sqrt{3}$ , then find  $\frac{\sin^2 C + \cos^2 C}{1 + \cot^2 C}$ .

Ans

1.  $\frac{3}{4}$

2.  $\frac{16}{3}$

3.  $\frac{4}{15}$

4.  $\frac{3}{16}$

Q.22 What principal would amount to ₹21,420 in 2 years at the rate of 9.5% p.a. simple interest?

Ans

1. ₹11,273

2. ₹12,000

3. ₹18,000

4. ₹16,000

Q.23 The sum of two consecutive even numbers is 174. Find the smaller number.

Ans

1. 84

2. 90

3. 86

4. 88

Q.24 A thief takes off on his bike at a certain speed, after seeing a police car at a distance of 250 m. The police car starts chasing the thief and catches him. If the thief runs 1.5 km before being caught and the speed of the police car is 70 km/h, then what is the speed of thief's bike (in km/h)?

Ans

1. 65

2. 60

3. 55

4. 50

Q.25 Suresh's expenditure and savings are in the ratio of 3 : 1. His income increases by 25%. If his savings increase by 20%, then by how much percentage does his expenditure increase?

Ans

1.  $27\frac{2}{3}\%$

2.  $25\frac{2}{3}\%$

3.  $28\frac{2}{3}\%$

4.  $26\frac{2}{3}\%$

Section : English Comprehension

Q.1 Select the most appropriate option to fill in the blank.

Just bite the \_\_\_\_\_ and tell him the truth.

Ans

1. bullet

2. gun

3. dust

4. shot



**Q.2** Select the most appropriate option to fill in the blank.

I like bread made up of corn \_\_\_\_\_.

- Ans**
- 1. flower
  - 2. flour
  - 3. floor
  - 4. failure

**Q.3** Select the option that can be used as a one-word substitute for the given group of words.

Loud enough to be heard.

- Ans**
- 1. Audible
  - 2. Audit
  - 3. Audacious
  - 4. Audacity

**Q.4** Select the most appropriate ANTONYM of the given word.  
Insert

- Ans**
- 1. Remove
  - 2. Inform
  - 3. Select
  - 4. Inject

**Q.5** Select the most appropriate option that can substitute the underlined word in the given sentence.

Verity is a good virtue for human life.

- Ans**
- 1. Knowledge
  - 2. Truth
  - 3. Information
  - 4. Cooperation

**Q.6** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.  
Founding father / is / of / New Historicism / Greenbalt / considered / the.

- Ans**
- 1. The founding father of New Historicism is considered Greenbalt.
  - 2. The founding father is considered Greenbalt of New Historicism.
  - 3. Greenbalt is considered the founding father of New Historicism.
  - 4. Greenbelt is the founding father of New Historicism considered.

**Q.7** Select the option that expresses the following sentence in active voice.

The issue has been successfully resolved by the customer care team.

- Ans**
- 1. The customer care team successfully resolves the issue.
  - 2. The customer care team successfully resolved the issue.
  - 3. The issue has successfully resolved the customer care team.
  - 4. The customer care team has successfully resolved the issue.

**Q.8** Select the most appropriate verb / verb phrase to fill in the blank.  
The team \_\_\_\_\_ the championship before their star player got injured.

- Ans**
- 1. was won
  - 2. had won
  - 3. has won
  - 4. win

**Q.9** Select the option that can be used as a one-word substitute for the given group of words.  
Money collected from people for a cause.

- Ans**
- 1. Collection
  - 2. Deposit
  - 3. Fund
  - 4. Savings

**Q.10** Select the most appropriate option that can rectify the incorrectly spelt word in the following sentence.  
In our quest for power, we often fail to acknowlege the existence of other people.

- Ans**
- 1. acknowledje
  - 2. accknowledge
  - 3. acknowledge
  - 4. acknowlede

**Q.11** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A.He remembered her as she once was – an eager, glowing girl.
- B.He had not seen her for nearly thirteen years.
- C.Mr. Satterthwaite went to meet her.
- D.And now he saw – a Frozen Lady.

- Ans**
- 1. DCBA
  - 2. CBAD
  - 3. DBAC
  - 4. ABCD

**Q.12** Identify from the given options the word which is similar in meaning to the following word.  
Munificent

- Ans**
- 1. Magnanimous
  - 2. Malicious
  - 3. Miserly
  - 4. Underappreciated

**Q.13** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- P) once said
- Q) a wise man
- R) that action speaks
- S) louder than words

- Ans**
- 1. QSRP
  - 2. QPRS
  - 3. PQRS
  - 4. SQPR

**Q.14** Select the most appropriate meaning of the underlined idiom.

Bincy's mother kept her cards close to her chest.

- Ans**
- 1. Decided to show more affection
  - 2. Informed that all the cards must be kept safe
  - 3. Kept her purse and money by herself
  - 4. Kept her plans and thoughts hidden

**Q.15** Identify the error in the given sentence.  
My colleague always works latest than me.

- Ans**
- 1. My colleague
  - 2. latest
  - 3. always works
  - 4. than me.

**Q.16** Select the option that expresses the following sentence in passive voice.  
Gill scored 3 centuries in Tata IPL 2023

- Ans**
- 1. 3 centuries has been scored by Gill in Tata IPL 2023.
  - 2. 3 centuries were scored by Gill in Tata IPL 2023.
  - 3. 3 centuries had been scored by Gill in Tata IPL 2023.
  - 4. 3 centuries were being scored by Gill in Tata IPL 2023.

**Q.17** Select the most appropriate synonym of the given word.  
Carcass

- Ans**
- 1. Gale
  - 2. Scrap
  - 3. Prison
  - 4. Corpse

**Q.18** Select the INCORRECTLY spelt word.

- Ans**
- 1. Accessibility
  - 2. Aptitude
  - 3. Apparatus
  - 4. Atrocios

**Q.19** Select the correct ANTONYM of the underlined word to fill in the blank and complete the following sentence.  
He is always active in a party but \_\_\_\_\_ in the class.

- Ans**
- 1. inert
  - 2. careless
  - 3. angry
  - 4. naughty

**Q.20** Select the option that expresses the opposite meaning of the underlined word.  
In front of the big screen, this behaviour is generally considered taboo.

- Ans**
- 1. Obedience
  - 2. Acceptable
  - 3. Promotion
  - 4. Prescription

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Social media companies (1)\_\_\_\_\_ claim that they promote democracy and are dedicated to the empowerment of ordinary individuals. The assertion (2)\_\_\_\_\_ entirely unfounded. Recent history shows how (3)\_\_\_\_\_ citizens have been mobilised against totalitarian regimes on social networking sites. Starting from MeToo to Black Lives Matter, digital networks (4)\_\_\_\_\_ indispensable in bringing together critical voices against social and political (5)\_\_\_\_\_ .

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank no. 1.

- Ans**
- 1. frequently
  - 2. seldom
  - 3. never
  - 4. don't

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Social media companies (1)\_\_\_\_\_ claim that they promote democracy and are dedicated to the empowerment of ordinary individuals. The assertion (2)\_\_\_\_\_ entirely unfounded. Recent history shows how (3)\_\_\_\_\_ citizens have been mobilised against totalitarian regimes on social networking sites. Starting from MeToo to Black Lives Matter, digital networks (4)\_\_\_\_\_ indispensable in bringing together critical voices against social and political (5)\_\_\_\_\_ .

**SubQuestion No : 22****Q.22** Select the most appropriate option to fill in blank no. 2.

- Ans
- 1. cannot
  - 2. should
  - 3. shall
  - 4. may not be

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Social media companies (1)\_\_\_\_\_ claim that they promote democracy and are dedicated to the empowerment of ordinary individuals. The assertion (2)\_\_\_\_\_ entirely unfounded. Recent history shows how (3)\_\_\_\_\_ citizens have been mobilised against totalitarian regimes on social networking sites. Starting from MeToo to Black Lives Matter, digital networks (4)\_\_\_\_\_ indispensable in bringing together critical voices against social and political (5)\_\_\_\_\_ .

**SubQuestion No : 23****Q.23** Select the most appropriate option to fill in blank no. 3.

- Ans
- 1. alien
  - 2. common
  - 3. neutral
  - 4. foreign

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Social media companies (1)\_\_\_\_\_ claim that they promote democracy and are dedicated to the empowerment of ordinary individuals. The assertion (2)\_\_\_\_\_ entirely unfounded. Recent history shows how (3)\_\_\_\_\_ citizens have been mobilised against totalitarian regimes on social networking sites. Starting from MeToo to Black Lives Matter, digital networks (4)\_\_\_\_\_ indispensable in bringing together critical voices against social and political (5)\_\_\_\_\_ .

**SubQuestion No : 24****Q.24** Select the most appropriate option to fill in blank no. 4.

- Ans
- 1. can
  - 2. were
  - 3. that
  - 4. have been

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Social media companies (1)\_\_\_\_\_ claim that they promote democracy and are dedicated to the empowerment of ordinary individuals. The assertion (2)\_\_\_\_\_ entirely unfounded. Recent history shows how (3)\_\_\_\_\_ citizens have been mobilised against totalitarian regimes on social networking sites. Starting from MeToo to Black Lives Matter, digital networks (4)\_\_\_\_\_ indispensable in bringing together critical voices against social and political (5)\_\_\_\_\_ .

**SubQuestion No : 25****Q.25** Select the most appropriate option to fill in blank no. 5.

- Ans
- 1. election
  - 2. democracy
  - 3. injustice
  - 4. justice

## Combined Graduate Level Examination 2024 Tier I

Exam Date	26/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

### Section : General Intelligence and Reasoning

**Q.1** In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

All phones are TVs.

Some TVs are big.

Some big are cars.

**Conclusions:**

I. Some TVs are phones.

II. Some big are TVs.

III. All big are cars.

- Ans**
- 1. Only conclusions I and II follow.
  - 2. None of the conclusions follows.
  - 3. Only conclusion III follows.
  - 4. Only conclusions II and III follow.

**Q.2** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

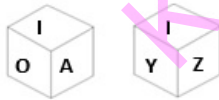
**Note:** The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans**
- 1. YWA
  - 2. LJO
  - 3. JHL
  - 4. OMQ

**Q.3** Which of the following terms will replace the question mark (?) in the given series?  
FHVQ, IJSO, LLPM, ONMK, ?

- Ans**
- 1. RPJI
  - 2. RPKJ
  - 3. ROJI
  - 4. QPJI

**Q.4** Six letters I, O, A, Y, Z and X are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to O.



- Ans**
- 1. A
  - 2. Z
  - 3. X
  - 4. Y

**Q.5** Three of the following number-pairs are alike in some manner and hence form a group. Which number-pair does not belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- 1. 12 – 225
  - 2. 8 – 100
  - 3. 9 – 121
  - 4. 6 – 64

**Q.6** Select the number from among the given options that can replace the question mark (?) in the following series.  
672, 677, 686, 699, 716, ?

- Ans**
- 1. 747
  - 2. 749
  - 3. 757
  - 4. 737

Q.7 In a certain code language,

'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A × B' means 'A is the wife of B' and  
'A ÷ B' means 'A is the father of B'.

Based on the above, how is 4 related to 1 if '4 × 3 - 2 - 1'?

- Ans
- 1. Mother
  - 2. Father's sister
  - 3. Sister
  - 4. Brother's wife

Q.8 The position of how many letters will remain unchanged if all the letters in the word MOLTEN are arranged in English alphabetical order?

- Ans
- 1. One
  - 2. Two
  - 3. None
  - 4. Three

Q.9 What will come in the place of the question mark (?) in the following equation if '+' and '×' are interchanged and '-' and '÷' are interchanged?

$$95 - 19 \times 4 + 6 \div 16 = ?$$

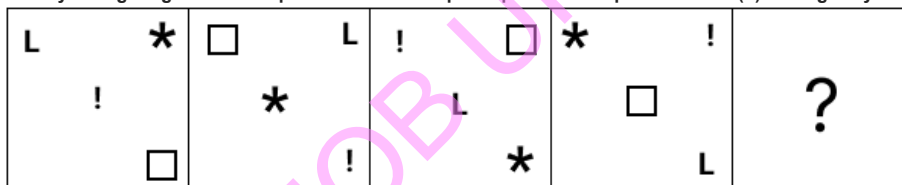
- Ans
- 1. 13
  - 2. 12
  - 3. 14
  - 4. 11

Q.10 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$$2736 \times 8 - 55 + 105 \div 2 = ?$$

- Ans
- 1. 127
  - 2. 137
  - 3. 187
  - 4. 177

Q.11 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?



Ans

- 1. 

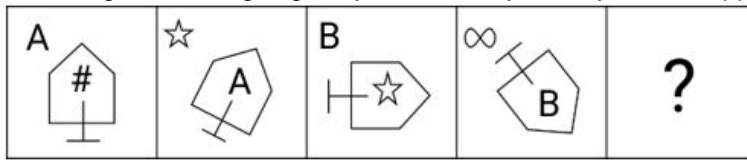
L		□
*	!	
- 2. 

L		*
	!	
		□
- 3. 

		L
	□	
!		*
- 4. 

L		
	!	
□		*

Q.12 Select the figure from among the given options that can replace the question mark (?) and logically complete the series.



Ans

- 1.
- 2.
- 3.
- 4.

Q.13 624 is related to 160 following a certain logic. Following the same logic, 448 is related to 116. To which of the following is 528 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 136
  - 2. 148
  - 3. 130
  - 4. 128

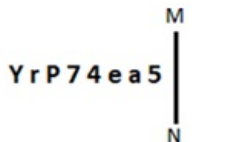
Q.14 80 is related to 99 following certain logic. Following the same logic, 0 is related to 3. To which of the following numbers is 35 related, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 46
  - 2. 44
  - 3. 42
  - 4. 48

Q.15 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.  
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
(96, 29)  
(112, 33)

- Ans
- 1. (204, 55)
  - 2. (176, 45)
  - 3. (188, 52)
  - 4. (108, 30)

Q.16 Select the correct mirror image of the given figure when the mirror is placed at MN.

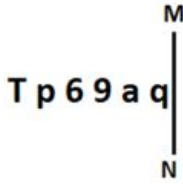


- Ans
- 1. 2ae74eP1Y
  - 2. YrP74ea5
  - 3. Y1P74eae2
  - 4. Y1P74eae2

Q.17 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
 WEL: DVO :: FOR: ULI :: SDX:?

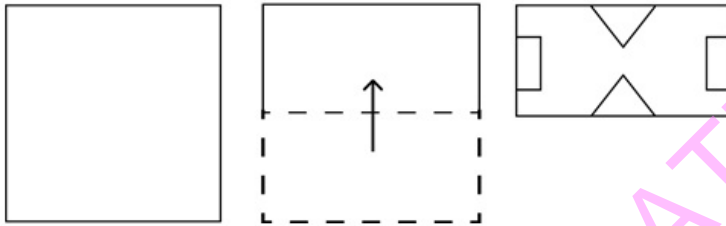
- Ans
- ✓ 1. HWC
  - ✗ 2. GWC
  - ✗ 3. HXC
  - ✗ 4. GXC

Q.18 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- ✗ 1. p s e θ q l
  - ✗ 2. q s 6 9 q T
  - ✗ 3. p e e 9 q T
  - ✓ 4. p s e θ q T

Q.19 A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last. How would the paper look when unfolded?



Ans

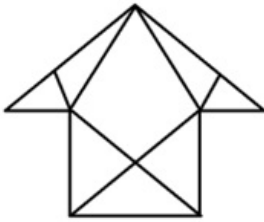
- ✗ 1.
- ✗ 2.
- ✗ 3.
- ✓ 4.

Q.20 Select the option that is related to the fifth letter cluster in the same way as the second letter cluster is related to the first letter cluster and the fourth letter cluster is related to the third letter cluster.  
 IMPROVE : RPMIEVO :: HISTORY : TSIHYRO :: JOURNEY : ?

- Ans
- ✓ 1. RUOJYEN
  - ✗ 2. JOURYEN
  - ✗ 3. NEYJOUR
  - ✗ 4. YENRUOJ



Q.21 How many triangles are there in the given figure?



- Ans
- 1. 13
  - 2. 12
  - 3. 10
  - 4. 11

Q.22 Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some cups are glasses.  
No glass is a stone.  
All stones are metals.

Conclusions:

I. All cups can never be stones.  
II. No cup is a metal.  
III. All metals can never be glasses.

- Ans
- 1. Only II and III conclusion follow
  - 2. All I, II and III conclusion follow
  - 3. Only conclusion I follows
  - 4. Only I and III conclusion follow

Q.23 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.  
\_ V D W Y \_ D W Y V \_ W Y \_ D \_

- Ans
- 1. YVYVW
  - 2. YVDVW
  - 3. YWDVW
  - 4. YVDVY

Q.24 In a certain code language, 'open the door' is coded as 'wu ko tn' and 'door is solid' is coded as 'ko gk mb'. How is 'door' coded in the given language?

- Ans
- 1. tn
  - 2. ko
  - 3. gk
  - 4. wu

Q.25 In a certain code language, 'VTPM' is coded as '37' and 'CGNK' is coded as '73'. How will 'MVLG' be coded in the same language?

- Ans
- 1. 64
  - 2. 58
  - 3. 81
  - 4. 72

Section : General Awareness

Q.1 In which of the following places did Mahatma Gandhi, along with other Indians, establish the Natal Congress to fight against racial discrimination?

- Ans
- 1. South Africa
  - 2. India
  - 3. England
  - 4. France

Q.2 In February 2023, BVR Subrahmanyam was appointed as the \_\_\_\_\_.

- Ans
- 1. Chief Vigilance Commissioner
  - 2. Comptroller General Of India
  - 3. CEO NITI Ayog
  - 4. Chief Election Commissioner

**Q.3** Which type of well-managed industry was established in India at the time of independence?

- Ans**
- 1. Electronics and Electricals
  - 2. Steel and Electronics
  - 3. Steel and Cotton
  - 4. Cement and Sugar

**Q.4** Yakshagan is a folk dance of which of the following states?

- Ans**
- 1. Odisha
  - 2. West Bengal
  - 3. Madhya Pradesh
  - 4. Karnataka

**Q.5** Which of the following options best describes the primary cause of the per capita income decline?

- Ans**
- 1. Equitable distribution of income
  - 2. Increase in the population growth
  - 3. Decline in the population growth
  - 4. Decline in the gross domestic product

**Q.6** Which television channel presents the IMMIES Awards every year with an aim to reward the best talent in the Indian music industry?

- Ans**
- 1. B4U Music
  - 2. MTV
  - 3. Channel V
  - 4. 9XM

**Q.7** The first Indian Olympic Games was hosted by which of the following cities?

- Ans**
- 1. Lahore
  - 2. Madras
  - 3. Bombay
  - 4. Allahabad

**Q.8** Pushyabhuti dynasty, after Prabhakarvardhana, strengthened its position in the regions of Punjab and Haryana after defeating which of the following dynasties?

- Ans**
- 1. Maukharis
  - 2. Hunas
  - 3. Chalukyas
  - 4. Maitrakas

**Q.9** Which law states that endothermic animals from cold climates have smaller extremities or appendages than closely related species from warm climates?

- Ans**
- 1. Harper's rule
  - 2. Reich's rule
  - 3. Allen's rule
  - 4. Moller's rule

**Q.10** UPSC is a Constitutional Body to conduct examinations for appointments to the services of the Union and the services of the State, respectively, under Article \_\_\_\_\_.

- Ans**
- 1. 320
  - 2. 324
  - 3. 328
  - 4. 332

**Q.11** Which of the following states suffers from 'Loo'?

- Ans**
- 1. Karnataka
  - 2. Kerala
  - 3. Assam
  - 4. Rajasthan

**Q.12** Pandit Ram Narayan was associated with which of the following musical instruments?

- Ans**
- 1. Sarod
  - 2. Rudra veena
  - 3. Sarangi
  - 4. Mohan veena

Q.13 The Tripartite struggle happened among the Palas, the Pratiharas and the \_\_\_\_\_.

- Ans
- 1. Chandelas
  - 2. Maukharis
  - 3. Rashtrakutas
  - 4. Chalukyas

Q.14 Guru Ghasidas led which of the following movements to improve the social condition of leather workers in British India?

- Ans
- 1. Aravipuram Movement
  - 2. Satyashodhak Samaj
  - 3. Nirankari Movement
  - 4. Satnami Movement

Q.15 Which of the following statements is INCORRECT regarding water remaining colder in an earthen pot (matka)?

- Ans
- 1. Water gets evaporated at the surface of the earthen pot.
  - 2. The earthen pot is porous.
  - 3. Environmental water vapour enters the pot through pores.
  - 4. The water oozes out through the pores in an earthen pot.

Q.16 Each of the following statements includes two terms. In three cases, the two terms mean the same as each other. In which of the following cases do the two terms NOT mean the same as each other?

- Ans
- 1. Nominal GDP and GDP at current prices
  - 2. The base period and the reference period
  - 3. Changes in real GDP and the GDP deflator
  - 4. Real GDP and GDP at constant prices

Q.17 What is the unit of specific resistance?

- Ans
- 1. Farad
  - 2. Ampere
  - 3. Coulomb
  - 4. Ohm meter

Q.18 The National Youth Policy 2014 defines youth as population between the ages of \_\_\_\_\_ and \_\_\_\_\_.

- Ans
- 1. 20; 29
  - 2. 15; 25
  - 3. 15; 29
  - 4. 10; 19

Q.19 What gave a major impetus to the cotton textile industry in India after Independence?

- Ans
- 1. Partition of India in 1947
  - 2. Export of raw cotton to England
  - 3. Swadeshi movement
  - 4. Development of railway network

Q.20 Which of the following is a key focus area of the 'Amrit Dharohar' scheme launched by the Prime Minister Narendra Modi on World Environment Day, 2023?

- Ans
- 1. Preservation of ancient Indian heritage sites
  - 2. Development of rural infrastructure
  - 3. To promote values of local communities in conserving wetland ecosystem
  - 4. Promotion of organic farming

Q.21 Subansiri, Jia Bharali, Dhansiri and Puthimari are the major tributaries of which river?

- Ans
- 1. Godavari
  - 2. Mahanadi
  - 3. Brahmaputra
  - 4. Bhagirathi

Q.22 Which Article of the Indian Constitution mentions about the 'Promotion of educational and economic interests of Scheduled Castes, Scheduled Tribes and other weaker sections'?

- Ans
- 1. Article 45
  - 2. Article 48
  - 3. Article 47
  - 4. Article 46

Q.23 Vishu festival is celebrated in which of the following states?

- Ans
- 1. Kerala And Karnataka
  - 2. Kerala And Tamil Nadu
  - 3. Madhya Pradesh & Rajasthan
  - 4. Gujarat and Maharashtra

Q.24 At which Olympic games did Abhinav Bindra win the gold medal?

- Ans
- 1. Athens 2004
  - 2. Rio 2016
  - 3. Beijing 2008
  - 4. London 2012

Q.25 Which of the following organisations is associated with the development of the web version: e-GOPALA application?

- Ans
- 1. National Dairy Development Board (NDDB)
  - 2. Indian Council of Agricultural Research
  - 3. National Dairy Research Institute (NDRI)
  - 4. National Institute of Agricultural Extension Management

Section : Quantitative Aptitude

Q.1 If the altitude from two vertices of a triangle to the opposite sides are equal, then the triangle will be:

- Ans
- 1. isosceles triangle
  - 2. equilateral triangle
  - 3. scalene triangle
  - 4. obtuse angle triangle

Q.2 A secant PAB is drawn from an external point P to the circle with the centre at O, intersecting it at A and B. If OP = 17 cm, PA = 12 cm and PB = 22.5 cm, then the radius of the circle is:

- Ans
- 1.  $\sqrt{23}$  cm
  - 2.  $\sqrt{21}$  cm
  - 3.  $\sqrt{17}$  cm
  - 4.  $\sqrt{19}$  cm

Q.3 An article costs ₹1,000 for a salesman. He fixes its marked price as ₹1,500. He sells it to a customer at a discount of 20%. He gives a further discount of 10% for each cash payment. Find the percentage of loss or gain that the salesman makes on sale.

- Ans
- 1. gain 8%
  - 2. gain 10%
  - 3. loss 8%
  - 4. loss 10%

Q.4 Simplify

$$626 \times 2912 \div 8138$$

- Ans
- 1. 285
  - 2. 224
  - 3. 364
  - 4. 310

Q.5 The monthly incomes of A, B and C are in the ratio 2 : 9 : 3 and their expenses are in the ratio 3 : 9 : 5. If A's saving is half of his total income, then savings of A, B and C are, respectively, in the ratio of:

- Ans
- 1. 3 : 9 : 2
  - 2. 2 : 5 : 2
  - 3. 3 : 18 : 4
  - 4. 1 : 2 : 1

Q.6 A tank is filled in 45 minutes by two pipes, A and B. Pipe B fills the tank twice as fast as A. How much time (in minutes) will pipe A alone take to fill the tank?

- Ans
- 1. 135
  - 2. 140
  - 3. 125
  - 4. 115

Q.7 In a circular race of 1600 m in length, Bhaskar and Vinay start with speeds of 27 km/h and 45 km/h starting at the same time from the same point. When will they meet for the first time on the track when running in the opposite directions and the same direction, respectively?

- Ans
- 1. 1 minute 20 seconds and 5 minutes 20 seconds
  - 2. 1 minute 40 seconds and 5 minutes 20 seconds
  - 3. 2 minutes 40 seconds and 5 minutes 40 seconds
  - 4. 2 minutes 20 seconds and 4 minutes 20 seconds

Q.8 The greatest value of  $\sin^4 \theta + \cos^4 \theta$  is:

- Ans
- 1. 2
  - 2. 1
  - 3. 3
  - 4. 4

Q.9 The given table shows the expenditure of a company (in lakh rupees) per annum over the years.

Year	Salary	Fuel and transport	Bonus	Interest on loan	Taxes
2005	212	78	4.00	24.6	88
2006	225	98	4.25	29.7	110
2007	236	105	4.75	36.8	125
2008	247	125	5.55	42.3	103
2009	295	145	6.25	49.6	118
2010	325	155	6.85	58.4	135

The total expenditure on all these categories in 2006 is what percentage (rounded off to two places of decimals) of the total expenditure in 2009?

- Ans
- 1. 66.09%
  - 2. 76.09%
  - 3. 76.07%
  - 4. 66.07%

Q.10 Simplify  $\frac{4x^2 - 49y^2}{2x + 7y} + 7y - 2x$

- Ans
- 1.  $4x - 14y$
  - 2.  $7y$
  - 3.  $4x$
  - 4. 0

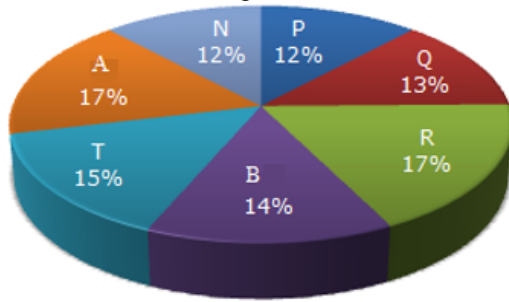
Q.11 In a triangle PQR,  $\angle P + \angle Q = 84^\circ$ . Find the value of  $\angle R$ .

- Ans
- 1.  $74^\circ$
  - 2.  $96^\circ$
  - 3.  $60^\circ$
  - 4.  $102^\circ$

Q.12 Find the volume of a cone having base radius 3.5 cm and height 18 cm.

- Ans
- 1.  $241 \text{ cm}^3$
  - 2.  $221 \text{ cm}^3$
  - 3.  $201 \text{ cm}^3$
  - 4.  $231 \text{ cm}^3$

- Q.13 The following pie-chart shows the distribution of students at graduate level in different institutes in a town. Study the given chart and answer the question that follows.  
Distribution of students at graduate level institutes



If the total number of students at the graduate level is 2,46,000, then how many students of institutes A and B are studying at graduate level?

- Ans
- 1. 76,260
  - 2. 74,580
  - 3. 86,190
  - 4. 78,370

- Q.14 Ram's income is 2.5% more than Shyam's income. By what percentage is Shyam's income less than Ram's income?

- Ans
- 1. 2.43%
  - 2. 3.43%
  - 3. 1.43%
  - 4. 4.43%

- Q.15 How much rice of ₹4 per kg should be mixed to 15 kg of rice of ₹10 per kg, so as to make a mixture worth ₹6.50 per kg?

- Ans
- 1. 15 kg
  - 2. 21 kg
  - 3. 30 kg
  - 4. 40 kg

- Q.16 The number of applicants appeared and qualified in a 4-wheeler driving licence test during the last four months of 2022 from a city are listed in the following table. Study the table carefully and answer the question that follows.

Month	Appeared applicants	Qualified applicants
September	2500	1200
October	2000	1100
November	2100	900
December	3000	1500

What is the percentage of disqualified applicants for the driving licence test in September?

- Ans
- 1. 54%
  - 2. 50%
  - 3. 48%
  - 4. 52%

- Q.17 If  $\frac{x}{x^2 - 2x + 1} = \frac{1}{3}$ , then the value of  $x^3 + \frac{1}{x^3}$  is:

- Ans
- 1. 110
  - 2. 130
  - 3. 160
  - 4. 180

- Q.18 If  $x = a \sec \theta \cos \phi$ ,  $y = b \sec \theta \sin \phi$  and  $z = c \tan \theta$ , then the value of

$\left(\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2}\right)$  is equal to:

- Ans
- 1. 2
  - 2. 1
  - 3. 3
  - 4. 0

Q.19 In how much time will ₹5,000 at 4% per annum simple interest produce the same interest as ₹8,000 in  $2\frac{1}{2}$  years at 8% per annum simple interest?

- Ans
- 1. 8 years
  - 2. 5 years
  - 3. 4 years
  - 4. 2 years

Q.20 A shopkeeper has a fault of 100 g in a 3 kg weight. He sold 3 kg of potatoes to Charu using the same faulty weight for ₹46. The cost price of the potatoes for the seller was ₹12 per kg. How much profit (in ₹) did he earn on the potatoes?

- Ans
- 1. 11.6
  - 2. 10.2
  - 3. 11.2
  - 4. 10

Q. In triangle XYZ, A is a point on YZ such that  $XA = YA$ . If  $\angle XYA = 50^\circ$  and  $\angle AXZ = 19^\circ$ , what is the degree meas

2  
1  
A  
n  
s

- 1.  $61^\circ$
- 2.  $53^\circ$
- 3.  $49^\circ$
- 4.  $41^\circ$

Q.22 Find the value of the unknowns:

$$\begin{aligned}x + 1.5y + 2z &= 5.5 \\x + 5y + 7z &= 15 \\3x + 11y + 13z &= 25\end{aligned}$$

- Ans
- 1.  $x = 2, y = -3, z = 4$
  - 2.  $x = -3, y = 2, z = 4$
  - 3.  $x = 4, y = -3, z = 2$
  - 4.  $x = 2, y = 4, z = -3$

Q.23 The following table shows the production (in units) and sales, of different items of a steel company. Study the table and answer the question that follows.

Item	Production (Units)	Sales (Units)
Plate	252	190
Bowl	356	307
Spoon	185	133
Pipe	220	155
Holder	458	419

In which item is there the least number of unsold items?

- Ans
- 1. Spoon
  - 2. Holder
  - 3. Plate
  - 4. Pipe

Q.24  $7^{15} + 7^{16} + 7^{17}$  is divisible by which of the following given numbers?

- Ans
- 1. 3
  - 2. 5
  - 3. 2
  - 4. 4

Q.25 If  $\cot \theta = \sqrt{11}$ , then the value of  $\frac{\operatorname{cosec}^2 \theta - \sec^2 \theta}{\operatorname{cosec}^2 \theta + \sec^2 \theta}$  is:

- Ans
- 1.  $\frac{3}{5}$
  - 2.  $\frac{5}{6}$
  - 3.  $\frac{4}{5}$
  - 4.  $\frac{6}{7}$

Section : English Comprehension

Q.1 Select the most appropriate ANTONYM of the given word.  
Astute

- Ans
- 1. Stupid
  - 2. Temporary
  - 3. Illegal
  - 4. Dispute

Q.2 Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct logical sequence to form a meaningful and coherent paragraph.  
a. This figure is predicted to climb as the percentage of Americans residing in rural areas falls by an average of 1.6% annually.  
b. The United Nations reports that India's urban population is growing at a rate of 1.1 percent annually, while the country's rural population is shrinking at a rate of 0.37 percent annually.  
c. While 82% of Americans live in urban settings, only 30% of Indians do so.  
d. It's still a considerably smaller percentage of the Indian population than it is in the US that resides in urban areas.

- Ans
- 1. d, b, a, c
  - 2. a, c, b, d
  - 3. b, d, c, a
  - 4. b, d, a, c

Q.3 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.  
(A) to become severely seasick  
(B) a world tour, but he was  
(C) a nervous flyer and tended  
(D) he wanted to go on

- Ans
- 1. BADC
  - 2. ADBC
  - 3. CADB
  - 4. DBCA

Q.4 Select the option that can be used as a one-word substitute for the given group of words.  
Study of flying airplanes

- Ans
- 1. Aviation
  - 2. Alchemy
  - 3. Astronomy
  - 4. Acoustics

Q.5 Select the option that expresses the given sentence in passive voice.  
A famous company conducted the workshop for its customers.

- Ans
- 1. The workshop were conducted by a famous company for its customers.
  - 2. The workshop had been conducted by a famous company for its customers.
  - 3. The workshop was conducted by a famous company for its customers.
  - 4. The workshop is conducted by a famous company for its customers.

Q.6 Select the option that expresses the given sentence in active voice.  
How have they been ordered by the minister?

- Ans
- 1. How have the minister ordered them?
  - 2. How had the minister ordered them?
  - 3. How did the minister order them?
  - 4. How has the minister ordered them?



Q.7 Select the most appropriate option to substitute the underlined part of the following sentence.  
The playwright has faced many ups and downs in his literary career, which spanned for almost 30 years.

- Ans
- 1. much truth and falsehood
  - 2. many agreements and disagreements
  - 3. much light and darkness
  - 4. many good and bad times

Q.8 Select the most appropriate option that can substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.  
The chief guest concluded his speech as he requested to stop by the organisers.

- Ans
- 1. no substitution
  - 2. he was requested
  - 3. he is requested
  - 4. he will be requested

Q.9 The following sentence has been split into four segments. Identify the segment that contains an error.  
He was / bad injured / in the / last match.

- Ans
- 1. last match.
  - 2. in the
  - 3. bad injured
  - 4. He was

Q.10 Select the most appropriate synonym of the word in brackets to fill in the blank.  
She \_\_\_\_\_ requested him to pay the bills. (persistently)

- Ans
- 1. impetuously
  - 2. obviously
  - 3. tremendously
  - 4. continuously

Q.11 Select the most appropriate ANTONYM of the given word.

Coy

- Ans
- 1. Shy
  - 2. Uptight
  - 3. Recent
  - 4. Extroverted

Q.12 Complete the sentence with the most appropriate set of ANTONYMS of the highlighted word. .  
'Grisly'.

The other day Jimmy behaved \_\_\_\_\_ with Jammy and that was quite \_\_\_\_\_ for me.

- Ans
- 1. rudely, attractive
  - 2. disgusting, atrocious
  - 3. ghastly, shameless
  - 4. pleasantly, comforting

Q.13 Select the most appropriate ANTONYM of the given word.

Customary

- Ans
- 1. Fashion
  - 2. Protection
  - 3. Habitual
  - 4. Unusual

Q.14 Select the most appropriate homophone to fill in the blank.  
The \_\_\_\_\_ of the flowers spread everywhere when they bloom.

- Ans
- 1. sent
  - 2. saint
  - 3. scent
  - 4. cent

Q.15 The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.

My sister and I / work very hard / nevertheless my brother does not do / any task assigned to him.

- Ans
- 1. nevertheless my brother does not do
  - 2. work very hard
  - 3. any task assigned to him.
  - 4. My sister and I

Q.16 Select the correct meaning of the underlined idiom in the following sentence.

Lucy's conceited conduct with her colleagues has left her high and dry.

- Ans
- 1. Helpless
  - 2. Superseding
  - 3. Impoverished
  - 4. Surrounded by people

Q.17 Select the correct spelling of the word that means 'to replace'.

- Ans
- 1. Superceed
  - 2. Supersed
  - 3. Superseed
  - 4. Supersede

Q.18 Select the word segment that can substitute the bracketed word segment correctly and complete the sentence meaningfully.  
We will have to (put the meeting away) as the Director is not well.

- Ans
- 1. put the meeting off
  - 2. put the meeting up
  - 3. put the meeting on
  - 4. put the meeting again

Q.19 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- (a) one of the primary obstacles encountered
- (b) is the risk of sample contamination
- (c) during the analysis of controlled dangerous substance (CDS)
- (d) from improper handling and collecting methodologies
- (e) proof bloodstain patterns and DNA evidence

- Ans
- 1. eacdb
  - 2. acebd
  - 3. aecdb
  - 4. abcde

Q.20 Select the INCORRECTLY spelt word.

- Ans
- 1. Convinient
  - 2. Embarrass
  - 3. National
  - 4. Discipline

#### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Global warming is a major problem. The result will be the problems created by the rising temperatures of the Arctic region. As a result of global warming, (1)\_\_\_\_\_ in rainfall and plant distribution affect the migration patterns, feeding behaviour, and breeding preferences of numerous bird species. The increase in the temperature may also alter ocean currents, which may alter the (2)\_\_\_\_\_ ecology as a whole. Greenhouse gas emissions are responsible for the ongoing melting of the Arctic. This will result in a (3)\_\_\_\_\_ loop since greenhouse gases trap the heat in the atmosphere and the additional emissions may (4)\_\_\_\_\_ the global warming process. Now, the only way to reverse the harm is for every person to be environmentally sensitive. This may offer us hope that we will be able to leave a green planet to our future generations, who presently appear to face (5)\_\_\_\_\_.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank number 1.

- Ans
- 1. stabilisation
  - 2. stagnation
  - 3. fixation
  - 4. alterations

#### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Global warming is a major problem. The result will be the problems created by the rising temperatures of the Arctic region. As a result of global warming, (1)\_\_\_\_\_ in rainfall and plant distribution affect the migration patterns, feeding behaviour, and breeding preferences of numerous bird species. The increase in the temperature may also alter ocean currents, which may alter the (2)\_\_\_\_\_ ecology as a whole. Greenhouse gas emissions are responsible for the ongoing melting of the Arctic. This will result in a (3)\_\_\_\_\_ loop since greenhouse gases trap the heat in the atmosphere and the additional emissions may (4)\_\_\_\_\_ the global warming process. Now, the only way to reverse the harm is for every person to be environmentally sensitive. This may offer us hope that we will be able to leave a green planet to our future generations, who presently appear to face (5)\_\_\_\_\_.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank number 2.

- Ans
- 1. grassland
  - 2. biosphere
  - 3. marine
  - 4. landscape

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Global warming is a major problem. The result will be the problems created by the rising temperatures of the Arctic region. As a result of global warming, (1)\_\_\_\_\_ in rainfall and plant distribution affect the migration patterns, feeding behaviour, and breeding preferences of numerous bird species. The increase in the temperature may also alter ocean currents, which may alter the (2)\_\_\_\_\_ ecology as a whole. Greenhouse gas emissions are responsible for the ongoing melting of the Arctic. This will result in a (3)\_\_\_\_\_ loop since greenhouse gases trap the heat in the atmosphere and the additional emissions may (4)\_\_\_\_\_ the global warming process. Now, the only way to reverse the harm is for every person to be environmentally sensitive. This may offer us hope that we will be able to leave a green planet to our future generations, who presently appear to face (5)\_\_\_\_\_.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**
- 1. feeble
  - 2. gentle
  - 3. vicious
  - 4. moderate

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Global warming is a major problem. The result will be the problems created by the rising temperatures of the Arctic region. As a result of global warming, (1)\_\_\_\_\_ in rainfall and plant distribution affect the migration patterns, feeding behaviour, and breeding preferences of numerous bird species. The increase in the temperature may also alter ocean currents, which may alter the (2)\_\_\_\_\_ ecology as a whole. Greenhouse gas emissions are responsible for the ongoing melting of the Arctic. This will result in a (3)\_\_\_\_\_ loop since greenhouse gases trap the heat in the atmosphere and the additional emissions may (4)\_\_\_\_\_ the global warming process. Now, the only way to reverse the harm is for every person to be environmentally sensitive. This may offer us hope that we will be able to leave a green planet to our future generations, who presently appear to face (5)\_\_\_\_\_.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**
- 1. hinder
  - 2. repress
  - 3. restrain
  - 4. accelerate

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Global warming is a major problem. The result will be the problems created by the rising temperatures of the Arctic region. As a result of global warming, (1)\_\_\_\_\_ in rainfall and plant distribution affect the migration patterns, feeding behaviour, and breeding preferences of numerous bird species. The increase in the temperature may also alter ocean currents, which may alter the (2)\_\_\_\_\_ ecology as a whole. Greenhouse gas emissions are responsible for the ongoing melting of the Arctic. This will result in a (3)\_\_\_\_\_ loop since greenhouse gases trap the heat in the atmosphere and the additional emissions may (4)\_\_\_\_\_ the global warming process. Now, the only way to reverse the harm is for every person to be environmentally sensitive. This may offer us hope that we will be able to leave a green planet to our future generations, who presently appear to face (5)\_\_\_\_\_.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. renovation
  - 2. extinction
  - 3. redemption
  - 4. salvation