

STAFF SELECTION COMMISSION

COMBINED GRADUATE LEVEL (TIER-I)

SOLVED PAPER

(9th September 2024: Shift-1)

Time Allotted: 1 hour

Max Marks: 200

General Intelligence and Reasoning

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

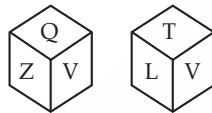
$$4515 \times 5 - 431 \div 3 + 821 = ?$$

1. 1335 2. 1775 3. 1575 4. 1375

2. 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.)

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

3. 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.



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

4. 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.)

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

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

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

6. 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.)

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

7. 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?

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

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

$$5 - 4 \div 9 + 80 \times 10 = ?$$

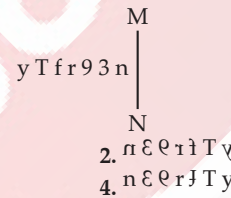
1. 31 2. 33 3. 35 4. 30

9. 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.)

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

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



1. n E e r i J I y 2. n E e r i T y
3. n 9 3 r i T y 4. n E e r J T y

11. 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: ?

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

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.

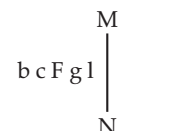
Statements:

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

Conclusions:

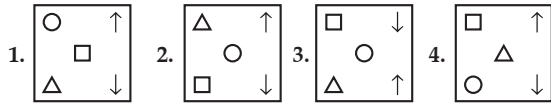
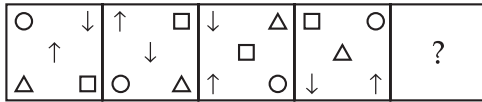
- I. All envelopes can never be parcels.
II. No card is a bag.
III. At least some bags are postcards.
1. Only I follows 2. Only II follows
3. Only I and III follow 4. Only II and III follow

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



1. I g F c d 2. I g F c b
3. I g F c d 4. I g F c b

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



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

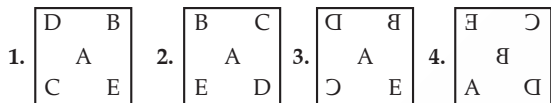
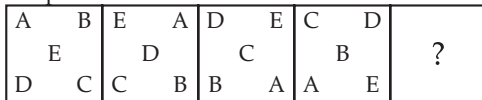
1. ZM72 2. ZN71 3. YN73 4. YM72

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

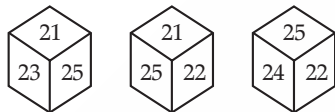
L _ P _ QS _ K _ P _ S _ KP _ Q _ L _ _ PQS

1. KPLPLQLSPK 2. PKLPQPLSKP
3. KPLPQQLPSK 4. KPLPQLPSKP

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

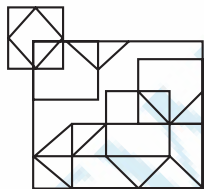


18. Six numbers 21, 22, 23, 24, 25 and 26 are written on different faces of a dice. Three positions of this dice are shown in the figure. Find the number on the face opposite to 24.



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

19. How many triangles are there in the given figure?



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

20. 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?

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

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:

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.

1. Only conclusion I follows

2. Both II and III conclusion follow

3. Only conclusion III follows

4. Both I and II conclusion follow

22. Which of the following terms will replace the question mark (?) in the given series?

YZUW, ?, QTQU, MQOT, INMS

1. UWSV 2. UWVS 3. USWV 4. WUSV

23. 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?

i. A + K / J - P = D

ii. J % P = K + A = D

iii. K + A / P - D % J

iv. D + K = A / P - J

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

24. 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)

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

25. Which of the following numbers will replace the question mark (?) in the given series?

1, 3, 10, 41, ?, 1237

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

General Awareness

26. In which year was Project Tiger launched in India?

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

27. Lathmar Holi is primarily celebrated in the state of:

1. Karnataka 2. Himachal Pradesh

3. Arunachal Pradesh 4. Uttar Pradesh

28. Which of the following awards was won by Lata Mangeshkar in the year 2001?

1. Dadasaheb Phalke Award

2. Padma Vibhushan

3. Bharat Ratna

4. Filmfare Lifetime Achievement Award

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

1. Chashtana

2. Rudradaman I

3. Rudrasimha III

4. Maues

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

1. NABARD

2. Self-help Group Association

3. Microfinance and Investments Regulatory Authority

4. Microfinance Institutions Network

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

1. Article 228

2. Article 227

3. Article 226

4. Article 225

32. Which of the following is NOT a condition for the President's office in India?
 1. He shall not hold any office of profit
 2. The allowances shall not be diminished during his term of office.
 3. He shall not be entitled, without payment of rent, to use his official residence.
 4. He shall not be a member of either House of the Parliament.
33. Which of the following statements best defines the monoecious?
 1. A flower with gynoeceium only
 2. A flower with androeceium only
 3. A flower with both androeceium and gynoeceium
 4. A flower with dithecous
34. Mohan Veena player, Pandit Vishwa Mohan Bhatt won the _____ Award in the year 1994.
 1. Grammy
 2. Sangeet Kalanidhi
 3. Oscar
 4. Sangeet Natak Akademi
35. Who is the Union Minister of State (Independent Charge) for Science and Technology as of July 2023?
 1. Dharmendra Pradhan
 2. Jitendra Singh
 3. Ashwini Vaishnav
 4. Ramesh Pokhriyal
36. Which of the following decomposition reactions is NOT a redox reaction?
 1. Decomposition of sodium hydride
 2. Decomposition of calcium carbonate
 3. Decomposition of potassium chlorate
 4. Decomposition of dihydrogen monoxide
37. Who among the following has authored the play 'Nil Darpan'?
 1. Chittaranjan Das
 2. Motilal Nehru
 3. Dinabandhu Mitra
 4. Sarojini Naidu
38. Who among the following formed the Bihar Provincial Kisan Sabha in 1929?
 1. Jayprakash Narayan
 2. JM Sengupta
 3. Kunwar Singh
 4. Swami Sahajanand Saraswati
39. Which plateau is very fertile because they are rich in black soil that is very good for farming?
 1. Deccan lava plateau
 2. African plateau
 3. Ethiopian plateau
 4. Katanga plateau
40. Which of the following is a correct order of basicity?
 1. LiOH>NaOH>KOH>CsOH
 2. KOH>CsOH>NaOH>LiOH
 3. LiOH>KOH>CsOH>NaOH
 4. CsOH>KOH>NaOH>LiOH
41. Which of the following pairs is INCORRECT regarding the grade of organisation and its example?
 1. Cell-tissue grade organisation - Jellyfish
 2. Cellular grade organisation - Sycon
 3. Protoplasmic grade organisation - Paramecium
 4. Tissue-organ grade organisation - Euplectella
42. The head office of Board of Control for Cricket in India (BCCI) is located in
 1. Kolkata
 2. Chennai
 3. Mumbai
 4. New Delhi
43. When the analysis of population density is done by calculating it through net cultivated area, then the measure is termed as:
 1. Net density
 2. Gross density
 3. Agricultural density
 4. Physiological density
44. Mahendrarvarman I was the ruler of which of the following dynasties?
 1. Pallava
 2. Pandya
 3. Chalukya
 4. Chola
45. What challenge does foreign investment often face in India?
 1. Excessive foreign competition
 2. Lack of skilled labour
 3. Lack of consumer base
 4. Inconsistent regulatory environment
46. Which of the following states is the biggest producer of Pulses?
 1. Bihar
 2. Madhya Pradesh
 3. Punjab
 4. Haryana
47. Who founded the Prarthana Samaj in Mumbai in 1867?
 1. Gopal Krishna Gokhale
 2. Shri Ram Bajpai
 3. Atmaram Pandurang
 4. Raja Ram Mohan Roy
48. Who is the Chief Minister of Tamil Nadu as of July 2023?
 1. KN Nehru
 2. Pinarayi Vijayan
 3. M Yediyurappa
 4. MK Stalin
49. In which city was the first golf club of India situated?
 1. Kolkata
 2. Mysore
 3. Shimla
 4. Gulmarg
50. Which Indian among the following has his name in Time Magazine's list of '100 most influential people of 2021'?
 1. Amit Shah
 2. Narendra Modi
 3. Neeraj Chopra
 4. Virat Kohli

Quantitative Aptitude

51. 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).
 1. 11.11%
 2. 14.94%
 3. 15.11%
 4. 18.21%
52. The value of $\cos^2 29^\circ + \cos^2 61^\circ$ is:
 1. $\frac{\sqrt{3}}{2}$
 2. 2
 3. 0
 4. 1
53. 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?
 1. 140 s
 2. 40 s
 3. 70 s
 4. 20 s
54. 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:
 1. 24
 2. 13
 3. 12
 4. 26
55. Which of the following statements is sufficient to conclude that two triangles are congruent?
 1. One side and one angle of both triangles are equal.
 2. These have two equal sides and the same perimeter.
 3. These have the same area and the same base.
 4. These have the same base and the same height.
56. 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, the minimum of 105 marks are neededs in History, how many students pass in the exam?
 1. 2
 2. 3
 3. 1
 4. 0

57. 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.
 1. 3 minutes 2. 5 minutes 3. 4 minutes 4. 6 minutes
58. The following tables 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	76	84	77	90	95
Shobhit	76	85	76	86	78
Sumit	90	88	78	82	68

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

1. Rohit 2. Tarun 3. Mohit 4. Sumit
59. 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?
 1. 13 2. 17 3. 16 4. 18
60. 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?
 1. 13 : 11 2. 4 : 11 3. 11 : 15 4. 15 : 4
61. Which of the following can be the value of 'k' so that the number 217924k is divisible by 6?
 1. 2 2. 6 3. 0 4. 4
62. 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?
 1. 8 2. 8.4 3. 7.5 4. 7.2
63. 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 ₹)?
 1. 330 2. 220 3. 300 4. 200
64. If the sum of two sides of an equilateral triangle is 16 cm, then find the third side.
 1. Cannot be found 2. 16 cm
 3. 4 cm 4. 8 cm
65. Simplify: $\frac{(x^2 - 9)}{x + 3}$
 1. $x - 9$ 2. $x + 3$ 3. $x - 3$ 4. $\sqrt{x^2 - 9}$
66. 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 across all centres?
 1. 2018 2. 2019 3. 2020 4. 2017
67. 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.
 1. 39 cm 2. 29 cm 3. 35 cm 4. 25 cm
68. 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:
 1. 4 2. 0 3. 1 4. 2
69. 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.
 1. 1 : 3 2. 2 : 3 3. 1 : 2 4. 3 : 4
70. Rajesh, in his printing press, got an order to print some books, out of which be completed $\frac{17}{27}$ of the order in 34 days. In how many days did he completed the entire order of printings?
 1. 54 2. 60 3. 56 4. 20
71. Simplify:
 $\frac{x^3 + 15x^2 + 75x + 125}{x^2 - 25} \times (x - 5)$
 1. $x^2 + 5x + 25$ 2. $x^2 - 25$
 3. $x^2 + 10x + 25$ 4. $x^2 + 25$
72. If $\operatorname{cosec} \theta = \frac{5}{3}$, then evaluate $(\sec^2 \theta - 1) \times \cot^2 \theta \times (1 + \cot^2 \theta)$
 1. $\frac{9}{16}$ 2. $\frac{25}{9}$ 3. $\frac{25}{16}$ 4. $\frac{4}{5}$
73. Which of the following can be the value of k, if $\frac{(88 \div 8 \times k - 3 \times 3)}{(6^2 - 7 \times 5 + k^2)} = 1$?
 1. 2, 7 2. 4, 7 3. 3, 10 4. 1, 10

74. Read the given information and answer the question that follows.

The following table given the percentage of marks obtained by seven students in six different subject 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 their in the six subject as given in the table above. what would be the exact overall percentage score obtained by that student

1. $90\frac{5}{6}\%$ 2. $91\frac{1}{6}\%$ 3. 95.16 % 4. 91 %

75. 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?

1. 5,61,347 2. 5,64,914 3. 5,58,380 4. 5,56,367

82. 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.

1. heterolinguistic 2. bilingual
3. multilingual 4. monolithic

83. Select the option that expresses the given sentence in passive voice.

Ishika saw the tiger in the forest.

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

84. 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

1. Veracious 2. Reticent
3. Contentious 4. Coward

85. 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.

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

86. 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.

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

87. Select the INCORRECTLY spelt word.

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

88. Select the most appropriate synonym to replace the underlined word in the given sentence.

No altruistic act is truly sincere.

1. phenomenal 2. phonotypical
3. philanthropic 4. phantasmal

89. Select the most appropriate synonym of the given word. Innuendo

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

English Comprehension

76. Select the most appropriate synonym of the given word.
Fatal

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

77. Select the option that expresses the given sentence in active voice.

Lovely tunes are composed by Domnica.

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

78. 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.

1. invalidate 2. maintain 3. witness 4. certify

79. 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.

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

80. Select the most appropriate synonym of the given word.
Toxic

1. Lethal 2. Licit
3. Laudatory 4. Lanky

81. Select the word which means the same as the group of words given.

Unit of weight for precious stones

1. Pure 2. Accurate 3. Reliable 4. Carat

90. Select the most appropriate option to fill in the blank.
Vinod had a _____ escape in the car accident.
1. comfortable 2. full
3. narrow 4. wide
91. 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
1. Anecdote 2. Sketch 3. Poem 4. Narrative
92. 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.
1. betray 2. intimidate 3. relish 4. soothe
93. Select the most appropriate meaning of the given idiom.
To have bigger fish to fry
1. To have bigger things to take care of than the menial task at hand
2. To take calculated risks
3. To know different kinds of fishing techniques
4. To have an interest in cooking
94. 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)
1. B 2. D 3. C 4. A
95. Select the most appropriate option to substitute the underlined segment in the given sentence.
She has been studying for two O'clock.
1. study from two O'clock 2. studying since two O'clock
3. studying two O'clock 4. study for two O'clock

Comprehension:

In the following passage, some words have been deleted. 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.

96. Select the most appropriate option to fill in blank number 1.
1. Therefore 2. Furthermore
3. Moreover 4. However
97. Select the most appropriate option to fill in blank number 2.
1. rescind 2. foresee 3. legalise 4. affect
98. Select the most appropriate option to fill in blank number 3.
1. Therefore 2. Moreover
3. However 4. Nevertheless
99. Select the most appropriate option to fill in blank number 4.
1. Therefore 2. Secondly 3. Besides 4. Despite
100. Select the most appropriate option to fill in blank number 5.
1. Therefore 2. However
3. Nevertheless 4. Moreover

Answer Key

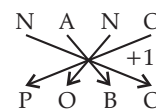
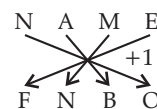
1. (4)	2. (2)	3. (2)	4. (2)	5. (4)	6. (2)	7. (2)	8. (2)	9. (2)	10. (2)	11. (1)	12. (1)	13. (1)
14. (2)	15. (4)	16. (4)	17. (2)	18. (4)	19. (1)	20. (1)	21. (2)	22. (1)	23. (4)	24. (4)	25. (4)	26. (1)
27. (4)	28. (3)	29. (2)	30. (4)	31. (3)	32. (3)	33. (3)	34. (1)	35. (2)	36. (2)	37. (3)	38. (4)	39. (1)
40. (4)	41. (4)	42. (3)	43. (4)	44. (1)	45. (4)	46. (2)	47. (3)	48. (4)	49. (1)	50. (2)	51. (2)	52. (4)
53. (1)	54. (4)	55. (2)	56. (3)	57. (2)	58. (2)	59. (1)	60. (4)	61. (1)	62. (1)	63. (3)	64. (4)	65. (3)
66. (2)	67. (3)	68. (2)	69. (2)	70. (1)	71. (3)	72. (2)	73. (4)	74. (2)	75. (2)	76. (3)	77. (3)	78. (1)
79. (4)	80. (1)	81. (4)	82. (3)	83. (3)	84. (3)	85. (4)	86. (2)	87. (4)	88. (3)	89. (4)	90. (3)	91. (1)
92. (2)	93. (1)	94. (1)	95. (2)	96. (4)	97. (2)	98. (2)	99. (3)	100. (1)				

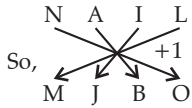
Answers with Explanations**General Intelligence and Reasoning**

1. **Option (4) is the correct.**
The given expression becomes
 $4515 \div 5 + 431 \times 3 - 821$
 $= 903 + 1293 - 821$
 $= 2196 - 821 = 1375$
2. **Option (2) is the correct.**
The rule followed is:
 $31 + 121 = 152$
 $47 + 121 = 168$
So, $66 + 121 = 187$

3. **Option (2) is the correct.**
The letters on opposite faces are (Q, T); (Z, L) and (A, V)
4. **Option (2) is the correct.**
Except option (2), the difference of numbers in other options is 216.
5. **Option (4) is the correct.**

We have





6. **Option (2) is the correct.**

Hexagon has 6 sides.

7. **Option (2) is the correct.**

N I **G** **H** T M A **R** E S → Given word

A E **G** **H** I M N **R** S T → New word

So, required number of letters = 4

8. **Option (2) is the correct.**

The given expression becomes

$$5 + 4 \times 9 - 80 \div 10$$

$$= 5 + 4 \times 9 - 8$$

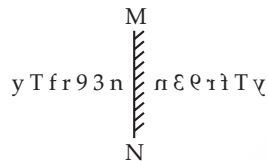
$$= 5 + 36 - 8 = 41 - 8 = 33$$

9. **Option (2) is the correct.**

The difference between the pair of numbers is 64.

$$\text{So, } 217 - 64 = 153$$

10. **Option (2) is the correct.**



11. **Option (1) is the correct.**

13	5	11	7	25	20	10	23	8
M	E	K	G	Y	T	J	W	H
N	V	P	T	B	G	Q	D	S
14	22	16	20	2	7	17	4	19

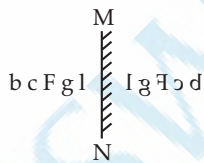
So, missing letter cluster is QDS.

12. **Option (1) is the correct.**

As all cards are envelopes and no card is a parcel.

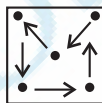
So, all envelopes can never be parcels

13. **Option (1) is the correct.**



14. **Option (2) is the correct.**

The elements moves as follows:



15. **Option (4) is the correct.**

The rule followed so:

$$U \xrightarrow{+1} V \xrightarrow{+1} W \xrightarrow{+1} X \xrightarrow{+1} Y$$

$$E \xrightarrow{+2} G \xrightarrow{+2} I \xrightarrow{+2} K \xrightarrow{+2} M$$

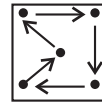
$$88 \xrightarrow{-4} 84 \xrightarrow{-4} 80 \xrightarrow{-4} 76 \xrightarrow{-4} 72$$

16. **Option (4) is the correct.**

The letters repeated as: LKPPQS

17. **Option (2) is the correct.**

The elements moves as follows:

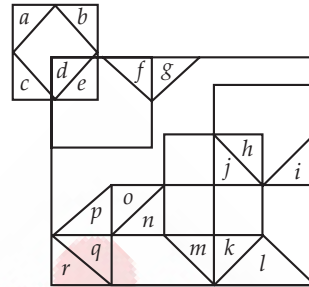


18. **Option (4) is the correct.**

The numbers an opposite faces are.

(26, 25); (21, 24) and (23, 22)

19. **Option (1) is the correct.**



Triangles formed are:

a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, fg, km, pq

∴ Number of triangles formed = 21

20. **Option (1) is the correct.**

Hence,

What where how → aa dd ff ... (i)

Where there that → dd zz pp ... (ii)

Which what here → ff kk ll ... (iii)

From (i) and (iii)

what → ff ... (iv)

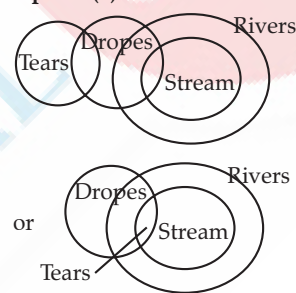
From (i) and (ii)

where → dd ... (v)

So, from (i), (iv) and (v)

how → aa

21. **Option (2) is the correct.**



So, both conclusions II and III follows

22. **Option (1) is the correct.**

The rule followed is:

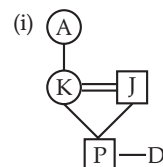
$$Y \xrightarrow{-4} U \xrightarrow{-4} Q \xrightarrow{-4} M \xrightarrow{-4} I$$

$$Z \xrightarrow{-3} W \xrightarrow{-3} T \xrightarrow{-3} Q \xrightarrow{-3} N$$

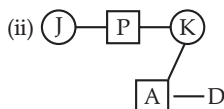
$$U \xrightarrow{-2} S \xrightarrow{-2} Q \xrightarrow{-2} O \xrightarrow{-2} M$$

$$W \xrightarrow{-1} V \xrightarrow{-1} U \xrightarrow{-1} T \xrightarrow{-1} S$$

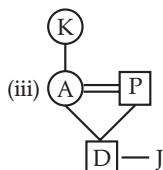
23. **Option (4) is the correct.**



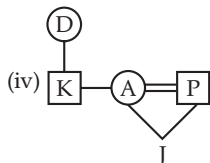
So, A is the mother of K.



So, A is the son of K.



So, A is the son of K.



So, A is the daughter of K.

24. **Option (4) is the correct.**

$$\text{As, } 19 \times 11 = 209$$

$$\text{and } 27 \times 11 = 297$$

$$\text{So, } 61 \times 11 = 671$$

25. **Option (4) is the correct.**

The rule followed is

$$1 \xrightarrow{\times 2 + 1} 3 \xrightarrow{\times 3 + 1} 10 \xrightarrow{\times 4 + 1} 41 \xrightarrow{\times 5 + 1} 206$$

$$1237 \xleftarrow{\times 6 + 1} 206$$

General Awareness

26. **Option (1) is correct.**

Project Tiger was launched on April 1, 1973, by the Union Ministry of Environment, Forest and Climate Change. Initially, it was launched in nine reserves of the country, and as of March 2024, it has been expanded to 55 reserves. The National Tiger Conservation Authority (NTCA) was established in 2005 to streamline the management of Project Tiger. Under the project tiger, the first tiger census was conducted in 1972. As per the latest tiger census, Madhya Pradesh has the highest tiger population in India.

27. **Option (4) is correct.**

Lathmar Holi is celebrated in Barsana and Nandgaon, Uttar Pradesh and is associated with Radha and Lord Krishna. It is a week-long celebration in which women beat men with sticks or lathis. People enjoy this traditional festival by dancing, singing, and throwing colours at each other.

28. **Option (3) is correct.**

Lata Mangeshkar won Bharat Ratna in 2001. Lata Mangeshkar was an Indian playback singer who was considered one of the greatest singers ever. She is also called 'Nightingale of India', 'Voice of the Millennium', and 'Queen of Melody.'

Bharat Ratna is the highest civilian award given by the Government of India. It was given for the first time in 1954 to C. Rajagopalachari, Sarvepalli Radhakrishnan, and C. V. Raman.

29. **Option (2) is correct.**

The details about Sudarshana Lake are given on a rock inscription at Girnar (Junagarh) to record the achievements of Rudradaman I. Sudarshan Lake is located in mid-Girnar Hill in Saurashtra, Gujarat, and it was built as an artificial reservoir to prevent flooding. The lake was constructed on the order of Chandragupta Maurya. The rock inscription is also known as the Girnar Rock inscription of Rudradaman.

30. **Option (4) is correct.**

The Microfinance Institutions Network (MFIN) is an industry association and self-regulatory organisation (SRO) whose primary objective is to work towards the robust development of the microfinance sector. It was established in 2009 as an industry association for Non-Bank Finance Company Micro Finance Institutions (NBFC-MFIs). In 2014, RBI was recognised it as India's first SRO for NBFC-MFIs. As of October 2024, Dr. Alok Mishra is the CEO and Director of MFIN.

31. **Option (3) is correct.**

Article 226 of the Indian Constitution gives the High Court the power to issue writs for the enforcement of fundamental rights and other purposes.

Article 228 of the Indian Constitution gives the High Court the power to transfer cases from subordinate courts to itself.

Article 227 of the Constitution of India gives the High Court the power of superintendence over all courts and tribunals within its jurisdiction.

Article 225 of the Indian Constitution establishes the jurisdiction of existing High Courts and the law administered in them.

32. **Option (3) is correct.**

The conditions for the President of India are covered under Part IV, Article 59 of the Indian Constitution. They are as follows:

- The President cannot be a member of either House of Parliament or of a House of the Legislature of any State. In case the person is a member, the person needs to vacate their seat in that House on the date on which he enters his office as President.
- The President shall not hold any other office of profit.
- The President is entitled to use their official residences without payment of rent
- The emoluments and allowances of the President shall not be diminished during his term of office.

33. **Option (3) is correct.**

'Monoecious' plants are the ones that have both male (androecium) and female (gynoecium) reproductive organs in the same plant. Some of the examples are Magnolias, Squash, coconuts etc. 'Dioecious plants' have male and female reproductive parts of different plants. e.g., red, cedars and ginkgos.

34. **Option (1) is correct.**

Pandit Vishwa Mohan Bhatt is an Indian Hindustani classical music instrumentalist known for playing Mohan Veena. He won a Grammy Award for his album 'Meeting by the River with Ry Cooder. The Grammy Awards celebrate outstanding achievements in the music industry. The Recording Academy of the United States presents these awards.

35. **Option (2) is correct.**

As of June 2023, the Union Minister of State (Independent Charge) for Science and Technology was Dr. Jitendra Singh.

36. **Option (2) is correct.**

A redox reaction is a chemical reaction in which the transfer of electrons takes place between the reactants. In these reactions, Oxidation (loss of electrons) and reduction (gain of electrons) take place at the same time. The decomposition of calcium carbonate is a decomposition reaction in which the compound breaks down into two or more components. In case of the calcium carbonate, it breaks down into Calcium Oxide and Carbon dioxide.

37. **Option (3) is correct.**

The play 'Nil Darpan' or 'Indigo Planting Mirror' was a Bengali play written by Dinabandhu Mitra in 1858-59. The play was written in context of the Indigo revolt and it highlighted the treatment of the Indian peasantry by the Indigo planters. The play was instrumental in the development of theatre in Bengal.

38. Option (4) is correct.

The Bihar Provincial Kisan Sabha (BPKS) was formed in 1929 by Swami Sahajanand Saraswati to address the grievances of peasants against the zamindars. Its first meeting was conceived at Sonepur Mela in Saran district, Bihar.

39. Option (1) is correct.

The Deccan lava plateau is known for its black soil. Black soil has volcanic origins and has nutrients and minerals good for cultivation and farming. The black colour of the soil is due to the presence of iron, aluminium and humus.

40. Option (4) is correct.

Basicity is the measure of a base's ability to accept hydrogen ions, or protons, in water to form a stable product. The correct order is $\text{CsOH} > \text{KOH} > \text{NaOH} > \text{LiOH}$.

41. Option (4) is correct.

The grade of organisation means how cells are arranged in an organism's body. An organism can have different grades of organisation- cellular, tissue, organ and the organ system. Euplectella has a cellular-level organisation. They are also known as glass sponges as they lack tissues.

42. Option (3) is correct.

The head office of the Board of Control for Cricket in India (BCCI) is located in Mumbai, Maharashtra. BCCI is the national governing body of cricket in India. BCCI is the wealthiest governing body of cricket in India. As of October 2024, the President of BCCI is Roger Binny, the CEO is Hemang Amin and the secretary is Jay Shah.

43. Option (4) is correct.

When the analysis of population density is done by calculating it through net cultivated area, then the measure is termed Physiological density. It measures how many people live per unit of arable land in a region. Arable land is suitable for growing crops and raising animals for food.

Agriculture density is the number of farmers per unit of arable land.

44. Option (1) is correct.

Mahendravarman I was a Pallava emperor who ruled from 600–630 CE over the northern parts of present-day Tamil Nadu and the southern parts of present-day Andhra Pradesh in India. He was a musician, scholar, and an architect. Under his rule, art and culture, and Tamil literature flourished. He was succeeded by his son, Narasimhavarman I.

45. Option (4) is correct.

Due to an inconsistent regulatory environment, it becomes challenging for foreign investors.

46. Option (2) is correct.

The biggest producer of Pulses is Madhya Pradesh which is known for the cultivation of Moong, Chana, Masoor, Arhar, etc.

47. Option (3) is correct.

Prarthana Samaj was founded by Dr. Atmaram Pandurang in 1867. Also known as the 'Prayer Society', its goals included opposing the caste system, encouraging widow remarriage, and promoting female education.

48. Option (4) is correct.

Muthuvel Karunanidhi Stalin is the current and eighth Chief Minister of Tamil Nadu. He is holding the position since 2021. He has been the president of the Dravida Munnetra Kazhagam (DMK) party since 2018. MK Stalin is the son of Muthuvel Karunanidhi.

49. Option (1) is correct.

The first and oldest Golf club in India, Royal Calcutta Golf Club (RCCG) was established in 1829 in Kolkata, West Bengal.

50. Option (2) is correct.

Narendra Modi was named in Time Magazine's '100 most influential people of 2021' list. He was featured on the list along with West Bengal Chief Minister Mamata Banerjee, Chief Executive Officer of the Serum Institute of India (SII), Adar Poonawalla.

Quantitative Aptitude**51. Option (2) is correct.**

$$\begin{aligned} \text{Profit percentage} &= \frac{1000 - 870}{870} \times 100 \\ &= 14.94\% \end{aligned}$$

52. Option (4) is correct.

$$\begin{aligned} \cos^2 29^\circ + \cos^2 61^\circ \\ &= \cos^2(90^\circ - 61^\circ) + \cos^2 61^\circ \\ &= \sin^2 61^\circ + \cos^2 61^\circ \\ &= 1 \end{aligned}$$

53. Option (1) is correct.

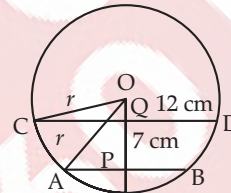
$$\text{Time taken by A to complete a round} = \frac{840}{6}$$

$$= 140 \text{ secs}$$

$$\text{Time taken by B to complete a round} = \frac{840}{12}$$

$$= 70 \text{ secs}$$

$$\text{So, required time} = \text{LCM}(140, 70) = 140 \text{ secs}$$

54. Option (4) is correct.

In $\triangle OQC$ (using Pythagoras theorem)

$$r = \text{OQ}^2 + 144$$

In $\triangle OPA$, (using Pythagoras theorem)

$$r^2 = (\text{OQ} + 7)^2 + 25$$

$$\text{So, } \text{OQ}^2 + 144 = \text{OQ}^2 + 49 + 14(\text{OQ}) + 25$$

$$\Rightarrow 100\text{OQ} = 70 \Rightarrow \text{OQ} = 7$$

$$\therefore r^2 = 25 + 144 = 169 \Rightarrow r = 13$$

$$\text{So, diameter} = 20 = 26 \text{ cm}$$

55. Option (2) is correct.

If two triangles have two equal side and same perimeter, then the two triangles are congruent.

56. Option (3) is correct.

$$\text{Required percentage to pass in history} = \frac{105}{175} \times 100$$

$$= 60\%$$

So, only 1 student passed in history.

57. Option (2) is correct.

Since, pipe Q fill in 110 min. So, part of cistern filled per minute by pipe Q = $\frac{1}{110}$

$$\text{So, part of cistern filled per minute by pipe P} = \frac{21}{110}$$

\therefore Part of cistern filled by pipe P and Q together

$$= \frac{21}{110} + \frac{1}{110} = \frac{22}{110} = \frac{1}{5}$$

\therefore Required time = 5 minutes

58. Option (2) is correct.

$$\begin{aligned} \text{Total marks obtained by Tarun} \\ &= 65 + 80 + 75 + 85 + 90 = 395 \end{aligned}$$

$$\text{So, required percentage} = \frac{395}{500} \times 100 = 79\%$$

59. Option (1) is correct.

Let the number of coins of ₹ 5, ₹ 2 and ₹ 1 be x , y and z respectively

$$\text{So, } 5x + 2y + z = 100 \quad \dots(i)$$

$$\text{and } x + y + z = 40 \quad \dots(ii)$$

On subtracting, we get

$$4x + y = 60 \Rightarrow y = 60 - 4x$$

$$\text{Now, from (ii), } z = 40 - y - x = 40 - (60 - 4x) - x$$

$$= 3x - 20$$

$$\text{As, } 60 - 4x \geq 0 \Rightarrow x \leq 15$$

$$\text{and } 3x - 20 \geq 7, 0 \Rightarrow x \geq \frac{20}{3}$$

So, from the options x could be 13.

60. Option (4) is correct.

Let radii of two cones r_1 and r_2 respectively

$$\text{So, } \frac{V_1}{V_2} = \frac{3}{5}$$

$$\Rightarrow \frac{\frac{1}{3}\pi r_1^2 h_1}{\frac{1}{3}\pi r_2^2 h_2} = \frac{3}{5}$$

$$\Rightarrow \left[\frac{r_1}{r_2}\right]^2 \times \left[\frac{h_1}{h_2}\right] = \frac{3}{5}$$

$$\Rightarrow \left[\frac{2}{5}\right]^2 \times \left[\frac{h_1}{h_2}\right] = \frac{3}{5}$$

$$\Rightarrow \frac{h_1}{h_2} = \frac{3}{5} \times \frac{25}{4} = \frac{15}{4}$$

61. Option (1) is correct.

The number 217924 k must be divisible by 2 and 3 both.

$$\text{Sum of digits} = 2 + 1 + 7 + 9 + 2 + 4 + k$$

$$= 25 + k$$

$$\text{So, } k = 2$$

62. Option (1) is correct.

Total no. of eligible voters = 16000

$$\text{No. of people vote} = (100 - y)\% = 16000$$

$$= (100 - y) \times 160$$

$$= 16000 - 160y$$

$$\text{Number of valid votes} = \frac{90}{100} \times (16000 - 160y)$$

According to questions,

$$\left[(59.375 - 40.625)\% \text{ of } \frac{90}{100} (16000 - 160y) \right]$$

$$= 2484$$

$$\Rightarrow \frac{18.75}{100} \times \frac{90}{100} (16000 - 160y) = 2484$$

$$\Rightarrow y = 8$$

63. Option (3) is correct.

M.P = ₹ 550

S.P = (100 - 40)% of ₹ 550

$$= \frac{60}{100} \times 550 = ₹ 330$$

So, S.P = 110% of C.P

$$330 = \frac{110}{100} \times \text{C.P}$$

$$\Rightarrow \text{C.P} = ₹ 300$$

64. Option (4) is correct.

Sum of two sides = 16 cm

$$\Rightarrow \text{Length of side} = \frac{16}{2} = 8 \text{ cm}$$

65. Option (3) is correct.

$$\frac{x^2 - 9}{x + 3} = \frac{(x - 3)(x + 3)}{x + 3} = x - 3$$

66. Option (2) is correct.

Number of absentees in 2016

$$= (45 - 42) + (56 - 45) + (55 - 50)$$

$$= 3 + 11 + 5 = 19$$

Number of absentees in 2017

$$= (50 - 45) + (75 - 55) + (45 - 40)$$

$$= 5 + 20 + 5 = 30$$

Number of absentees in 2018

$$= (64 - 60) + (65 - 45) + (65 - 55)$$

$$= 4 + 20 + 10 = 34$$

Number of absentees in 2019

$$= (80 - 69) + (84 - 72) + (70 - 62)$$

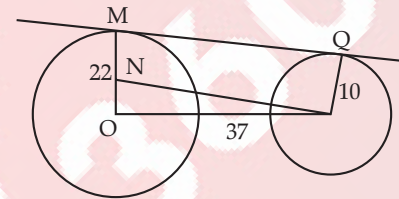
$$= 11 + 12 + 8 = 31$$

Number of absentees in 2020

$$= (55 - 44) + (80 - 66) + (90 - 85)$$

$$= 11 + 14 + 5 = 30$$

67. Option (3) is correct.



Length of common tangent

$$= \sqrt{37^2 - (22 - 10)^2}$$

$$= \sqrt{1369 - 144} = \sqrt{1225} = 35 \text{ cm}$$

68. Option (2) is correct.

$$\sin^2 30^\circ - \sin^2 40^\circ + \sin^2 45^\circ - \sin^2 55^\circ - \sin^2 35^\circ + \sin^2 45^\circ -$$

$$\sin^2 50^\circ + \sin^2 60^\circ$$

$$= \left(\frac{1}{2}\right)^2 - \cos^2 50^\circ + \left(\frac{1}{\sqrt{2}}\right)^2 - \cos^2 35^\circ$$

$$- \sin^2 35^\circ + \left(\frac{1}{\sqrt{2}}\right)^2 - \sin^2 50^\circ + \left(\frac{\sqrt{3}}{2}\right)^2$$

$$= \frac{1}{4} - 1 + \frac{1}{2} - 1 + \frac{1}{2} + \frac{3}{4} = 0$$

69. Option (2) is correct.

Let the number of boys and girls be b and g respectively.

\therefore Sum of marks of boys = 75 b

and sum of marks of girls = 80 g

$$\text{Now, } \frac{75b + 80g}{b + g} = 78$$

$$\Rightarrow 75b + 80g = 78b + 78g$$

$$\Rightarrow 3b = 2g$$

$$\Rightarrow \frac{b}{g} = \frac{2}{3}$$

70. **Option (1) is correct.**

$$\begin{aligned} &\text{Reignited number of days} \\ &= \frac{34}{17} \times 27 = 54 \text{ days} \end{aligned}$$

71. **Option (3) is correct.**

$$\begin{aligned} &\frac{x^3 + 15x^2 + 75x + 125}{(x^2 - 25)}(x - 5) \\ &= \frac{(x + 5)(x^2 + 10x + 25)(x - 5)}{(x - 5)(x + 5)} \\ &= x^2 + 10x + 25 \end{aligned}$$

72. **Option (2) is correct.**

$$\begin{aligned} \operatorname{cosec} \theta &= \frac{5}{3} \\ (\sec^2 \theta - 1) \times \cot^2 \theta (1 + \cot^2 \theta) \\ &= \tan^2 \theta \times \cot^2 \theta \times \operatorname{cosec}^2 \theta \\ &= 1 \times \frac{25}{9} = \frac{25}{9} \end{aligned}$$

73. **Option (4) is correct.**

$$\begin{aligned} &\frac{(88 \div 8 \times k - 3 \times 3)}{(6^2 - 7 \times 5 + k^2)} = 1 \\ \Rightarrow &\frac{11 \times k - 9}{36 - 35 + k^2} = 1 \\ \Rightarrow &11k - 9 = 1 + k^2 \\ \Rightarrow &k^2 - 11k + 10 = 0 \\ \Rightarrow &(k - 10)(k - 1) = 0 \\ \Rightarrow &k = 1, 10 \end{aligned}$$

74. **Option (2) is correct.**

$$\begin{aligned} &\text{Total marks obtained} \\ &= 100\% \text{ of } 150 + 80\% \text{ of } 130 + 90\% \text{ of } 120 + 95\% \text{ of } 100 \\ &\quad + 90\% \text{ of } 60 + 90\% \text{ of } 40 \\ &= \frac{100}{100} \times 150 + \frac{80}{100} \times 130 + \frac{90}{100} \times 120 \\ &\quad + \frac{95}{100} \times 100 + \frac{90}{100} \times 60 + \frac{90}{100} \times 40 \\ &= 150 + 104 + 108 + 95 + 54 + 36 = 547 \\ &\text{Total maximum marks} \\ &= 150 + 130 + 120 + 100 + 60 + 40 = 600 \\ \therefore \text{Required percentage} &= \frac{547}{600} \times 100 \\ &= 91\frac{1}{6}\% \end{aligned}$$

75. **Option (2) is correct.**

$$\begin{aligned} \text{Principal} &= ₹ 422092 \\ \text{Interest for I}^{\text{st}} \text{ year} &= \frac{422092 \times 20}{100} \\ &= ₹ 84418.40 \\ \text{Amount to be paid} &= 422092 + 21679 \\ &= ₹ 400413 \end{aligned}$$

Now, interest for IInd year

$$= \frac{400413 \times 20}{100} = ₹ 80082.60$$

Now, total amount needs to pay at the end of IInd year

$$\begin{aligned} &= ₹ (400413 + 84418.40 + 80082.60) \\ &= ₹ 564914 \end{aligned}$$

English Comprehension

76. **Option (3) is correct.**

The word 'fatal' refers to something that causes death or leads to disaster. Among the options, 'deadly' is the closest synonym because it also describes something that can cause death or extreme harm. The other choices—'additional,' 'easy,' and 'joyful'—are unrelated to this meaning.

77. **Option (3) is correct.**

The given sentence is in passive voice, where 'Lovely tunes' is the subject. In active voice, the subject performs the action. Option 3, 'Domnica composes lovely tunes,' correctly expresses this, with 'Domnica' as the doer and 'lovely tunes' as the object.

78. **Option (1) is correct.**

The underlined word 'vouch' means to confirm or support something as true. The opposite of this would be to reject or deny. Among the options, 'invalidate' best expresses the opposite meaning, as it means to nullify or prove something to be incorrect, unlike the other choices.

79. **Option (4) is correct.**

The error lies in segment 4, 'no informations.' The word 'informations' is incorrect because 'information' is an uncountable noun and should not have an 's' at the end. The correct phrase should be 'no information.'

80. **Option (1) is correct.**

The word 'toxic' refers to something that is harmful or poisonous. Among the options, 'lethal' is the closest synonym, as it also describes something that can cause death or serious harm. The other choices—'licit,' 'laudatory,' and 'lanky'—are unrelated to this meaning.

81. **Option (4) is correct.**

The phrase 'unit of weight for precious stones' refers specifically to how gemstones are measured. The correct answer, 'carat,' is a standard unit used to express the weight of diamonds and other gemstones, making it the most fitting choice among the options provided.

82. **Option (3) is correct.**

The phrase 'proficient in speaking many languages' can be replaced with the term 'multilingual.' This word specifically describes a person who has the ability to speak several languages fluently, distinguishing it from 'bilingual,' which refers to speaking in two languages.

83. **Option (3) is correct.**

The original sentence 'Ishika saw the tiger in the forest' is in active voice. Option 3, 'The tiger was seen by Ishika in the forest,' correctly transforms it into passive voice, making the tiger the subject and indicating that Ishika is the doer of the action.

84. **Option (3) is correct.**

The phrase 'a person who likes to argue about anything' can be concisely described as 'contentious.' This term refers to someone who is prone to causing disputes or arguments, making it the most fitting choice compared to the other options listed.

85. **Option (4) is correct.**

The underlined segment 'uninterrupted art in a traditional' is best replaced by 'sequential art in a traditional,' which accurately describes the method of storytelling in graphic novels. Sequential art refers to the use of images arranged in a specific order to convey a narrative, aligning perfectly with the context.

86. Option (2) is correct.

The error is in segment 2, 'extremely good.' The adjective 'good' should be replaced with the adverb 'well' to correctly describe how the brother performed. The correct phrase would be 'performed extremely well' to reflect proper grammatical structure. This is because the verb performed can be modified by an adverb, not adjective.

87. Option (4) is correct.

The incorrectly spelled word is 'relevent.' The correct spelling is 'relevant,' which means closely connected or appropriate to the matter at hand. The other options—bureaucracy, embarrass and connoisseur—are correctly spelled.

88. Option (3) is correct.

The word 'altruistic' refers to selfless concern for the well-being of others. Among the options, 'philanthropic' is the most appropriate synonym, as it also conveys a sense of generosity and a desire to promote the welfare of others, aligning closely with the original meaning.

89. Option (4) is correct.

The term 'innuendo' refers to an indirect or subtle reference, often with a negative connotation. The best synonym among the options is 'insinuation,' which similarly implies a hint or suggestion, often with an underlying or implied meaning that is not explicitly stated.

90. Option (3) is correct.

Vinod had a narrow escape in the car accident. The phrase 'narrow escape' commonly describes a situation where someone avoids danger or harm by a small margin. The other options, such as 'comfortable,' 'full' and 'wide,' do not convey the urgency of the situation.

91. Option (1) is correct.

The phrase 'a short interesting story about a real person or event' can be replaced with 'anecdote.' An anecdote specifically refers to a brief, engaging account of a real incident or person, making it the most suitable option compared to the others.

92. Option (2) is correct.

In the sentence, 'harass' means to disturb or bother someone repeatedly. The best synonym from the options is 'intimidate,' which conveys a similar sense of creating fear or anxiety in someone, aligning closely with the original meaning.

93. Option (1) is correct.

The idiom 'to have bigger fish to fry' means to have more important or significant matters to address than the current task. It emphasises prioritising more crucial issues, making option 1 the most appropriate interpretation.

94. Option (1) is correct.

The misspelled word is 'evacting' in option B, which should be 'evacuating.' The term 'evacuating' refers to the process of removing people from a place, especially for safety reasons. The other words are spelled correctly.

95. Option (2) is correct.

The phrase 'has been studying for two O'clock' is incorrectly used. The correct substitution is 'studying since two O'clock,' which accurately indicates that she began studying at two O'clock and has continued doing so, reflecting the proper use of the present perfect continuous tense. To specify, 'for' is used for a duration of time, while 'since' is used to refer to a point of time till the present.

96. Option (4) is correct.

The word 'However' is the most suitable option to fill in blank number 1, as it introduces a contrast to the saying about predictions, acknowledging that the idea is not universally true.

97. Option (2) is correct.

The option 'foresee' fits perfectly in blank number 2, as it means to anticipate or predict an event. This aligns with the context of predicting events.

98. Option (2) is correct.

'Moreover' is the correct choice for blank number 3 because it adds additional information about predictions based on signs that have proven incorrect, indicating a continuation of thought.

99. Option (3) is correct.

The word 'Besides' is appropriate for blank number 4, as it introduces additional information about unnatural calamities, suggesting that there are more aspects to consider in the discussion.

100. Option (1) is correct.

'Therefore' is the best option for blank number 5, as it summarises the previous ideas, indicating that while predictions can fail, some possibilities remain valid and should not be dismissed.