

## Instructions

- The test contains 100 objective type questions.
- All questions are compulsory.
- Complete the test within 90 minutes.
- All questions contain four alternatives, in which only one is correct.
- Correct answer will carry 1 mark per question.
- Incorrect answer will carry 1/3 negative mark per question.

- The sides (in cm) of a right triangle are  $(x - 13)$ ,  $(x - 26)$  and  $x$ . Its area (in  $\text{cm}^2$ ) is:  
 (1) 999 (2) 1014  
 (3) 1010 (4) 1012
- If  $\tan \theta = \frac{7}{8}$ , then evaluate  $\frac{(1 + \sin \theta)(1 - \sin \theta)}{(1 + \cos \theta)(1 - \cos \theta)(\cot \theta)}$ .  
 (1)  $\frac{8}{7}$  (2)  $\frac{7}{8}$   
 (3)  $\frac{49}{64}$  (4)  $\frac{64}{49}$
- If 24 is subtracted from three times an unknown number, the difference is 258. What is the unknown number?  
 (1) 94 (2) 70 (3) 78 (4) 82
- The sides of a rectangular field are 169 m and 154 m long. Its area is equal to the area of a circular field. What is the circumference (in m) of the circular field?  
 Take  $\pi = \frac{22}{7}$   
 (1) 525 (2) 540 (3) 572 (4) 544
- Which of the following actors was honoured with the 2025 International Goya Award for his contributions to global cinema?  
 (1) Sigourney Weaver (2) Richard Gere  
 (3) Cate Blanchett (4) Juliette Binoche
- 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 letter-cluster 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.)  
 (1) SUP (2) NPK (3) PRV (4) GID
- Simplify:  $\sqrt[6]{729} + \sqrt[4]{65536} + \sqrt[3]{5832} + \sqrt{1764}$   
 (1) 121 (2) 65  
 (3) 133 (4) 79
- Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. Only four boxes are kept between D and F. Only A is kept above D. Only two boxes are kept between C and G. E is kept immediately above B. G is not kept immediately above E. How many boxes are kept below E?  
 (1) 1 (2) 2  
 (3) 4 (4) 3
- WJ 15 is related to UN 11 in a certain way. In the same way, QH 8 is related to OL 4. To which of the given options is RI 3 related, following the same logic?  
 (1) IN-9 (2) PL -7  
 (3) TR -5 (4) PM -1
- What milestone did Virat Kohli achieve in the 2025 IPL season (as of 15 April, 2025)?  
 (1) Hitting 500 sixes in the IPL.  
 (2) Scoring 10,000 runs in the IPL.  
 (3) Registering a combined total of 1000 fours and sixes in IPL history.  
 (4) Winning 5 IPL titles.
- In a certain code language, 'joy lab poet' is coded as 'to dl dh' and 'poet win union' is coded as 'dl fo kb'. How is 'poet' coded in the given language?  
 (1) dl (2) dh  
 (3) fo (4) to
- What happens when an Indian citizen renounces their citizenship?  
 (1) They become a foreign diplomat.  
 (2) Nothing changes.  
 (3) They lose their Indian citizenship.  
 (4) They are fined.
- Each of the digits in the number 8142769 is arranged in the ascending order from left to right. Which of the following digits will be fourth from the left in the new number thus formed?  
 (1) 6 (2) 4  
 (3) 8 (4) 2

14. A man has to cover a distance of 387 km in 21 hours. If he covers two-thirds of this distance in  $\frac{5}{7}$  of the time, then what should his speed (in km/hr) be to cover the remaining distance in the time left?
- (1) 21.5 (2) 8.6  
(3) 11.5 (4) 15.5
15. Evan starts from point A and drives 12 km towards west. He then takes a left turn and drives 6 km and turns left and drives 4 km. He then takes a right turn and drives 2 km. He then takes a right turn and drive 3 km. He then takes a left turn and drives 3 km. He takes a final left turn, drives 11 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again (all turns are  $90^\circ$  turns only unless specified)?
- (1) 9 km south (2) 11 km south  
(3) 11 km north (4) 12 km north
16. In March 2025, which wildlife sanctuary in Punjab was proposed to be developed into a leopard safari to boost eco-tourism?
- (1) Jhajjar-Bachauli Wildlife Sanctuary  
(2) Harike Wildlife Sanctuary  
(3) Bir Moti Bagh Wildlife Sanctuary  
(4) Abohar Wildlife Sanctuary
17. In December 2024, the Indian Navy Day was celebrated with which theme?
- (1) Strength and Power through Innovation and Indigenisation.  
(2) Guardians of the Sea with Strategic Operational Excellence.  
(3) Blue Waters and Technological Strength for National Defence.  
(4) Innovation and Self-Reliance for Maritime Supremacy in India.
18. Find the simple interest (in ₹) if a sum of ₹ 350 is borrowed for 1.5 years at 20% per annum rate of interest.
- (1) 85 (2) 155 (3) 105 (4) 205
19. Which of the following characters is NOT allowed in a filename when renaming in Windows?
- (1) - (hyphen) (2) \_ (underscore)  
(3) ? (question mark) (4) # (hash)
20. Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair 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.)
- (1) LD-KH (2) OP-KL  
(3) IJ-EF (4) MN-IJ
21. Which command in Windows 10 CMD will delete all .log files in the current directory without asking for confirmation?
- (1) del \*.log (2) del \*.log /p  
(3) del \*.log/q (4) erase \*.log
22. Which of the following statements about Exercise CYCLONE, conducted in February 2025 is/are correct?
1. It was held at Mahajan Field Firing Ranges in Rajasthan.  
2. The participating countries were India and Egypt.  
3. The exercise focussed on artillery training of joint forces.
- (1) Only 1 (2) Only 1 and 2  
(3) 1, 2 and 3 (4) Only 2
23. DREAM is related to ZNAWI in a certain way based on the English alphabetical order. In the same way, DANCE is related to ZWJYA. To which of the given options is DOUBT related, following the same logic?
- (1) ZKKXP (2) ZKVXP  
(3) ZKPXP (4) ZKQXP
24. The mode and median of a dataset is 52.7 and 65, respectively. What is the mean of the dataset? (Use the empirical formula and round off your answer to one decimal place.)
- (1) 71.2 (2) 77.8  
(3) 68.2 (4) 62.5
25. If 68 is the mean proportion between  $x$  and 272, what is the value of  $x$ ?
- (1) 17 (2) 19  
(3) 16 (4) 15
26. X, Y and Z invest a sum in the ratio 6 : 59 : 41 respectively. If they earned total profit of ₹ 3,180 at the end of year, then what is the difference between the share of Y and Z?
- (1) ₹ 634 (2) ₹ 484  
(3) ₹ 432 (4) ₹ 540
27. A and B can do a job in 25 days and 18 days, respectively. A works alone for 4 days and leaves. The number of days required by B to complete the remaining job is:
- (1)  $15\frac{3}{25}$  (2)  $15\frac{3}{26}$   
(3)  $17\frac{4}{26}$  (4)  $16\frac{3}{25}$
28. Kanishka, the Kushana ruler, was a patron of which religion?
- (1) Christianity (2) Buddhism  
(3) Jainism (4) Zoroastrianism
29. Which of the following soils has the highest water-retaining capacity?
- (1) Red soil (2) Black soil  
(3) Desert soil (4) Alluvial soil
30. What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged, and 'x' and 'y' are interchanged  $56 - 12 \times 4 \div 9 + 5 = ?$
- (1) 55 (2) 54  
(3) 78 (4) 90

31. The average of 10 observations is 40. It was realised later that an observation was misread as 33 in place of 50. Find the correct average.  
 (1) 44.7 (2) 40.7  
 (3) 42.7 (4) 41.7
32. Sachin's salary was first reduced by 16% and subsequently raised by 10%. What percentage was his final salary lower compared to his initial salary?  
 (1) 16% (2) 10%  
 (3) 1.6% (4) 7.6%
33. When were privy purses officially abolished in India?  
 (1) 1956 (2) 1969  
 (3) 1980 (4) 1971
34. What should come in place of the question mark (?) in the given series based on the English alphabetical order?  
 VQL TOJ RMH PKF?  
 (1) NID (2) NDI  
 (3) DNI (4) DIN
35. If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1437586, what will be difference between the highest and lowest digits in the number thus formed?  
 (1) 6 (2) 1  
 (3) 4 (4) 7
36. The Desert National Park is renowned for which endangered bird species?  
 (1) Peacock  
 (2) Great Hornbill  
 (3) Great Indian Bustard  
 (4) Bengal Florican
37. What was the main reason for the protest against the Simon Commission in 1928?  
 (1) Introduction of new laws  
 (2) Discrimination against minorities  
 (3) High taxes  
 (4) Lack of Indian representation
38. What should come in place of the question mark (?) in the given series?  
 901 900 897 892 885?  
 (1) 877 (2) 876  
 (3) 875 (4) 873
39. What type of assistance is being provided by India to Myanmar under Operation Brahma 2025?  
 (1) Only financial assistance.  
 (2) Disaster relief material, humanitarian assistance, search and rescue teams.  
 (3) Only medical assistance.  
 (4) Only food supplies.
40. Which one is NOT the method to search for and replace text in Microsoft Word?  
 (1) Press Ctrl + H to open the Find and Replace window.  
 (2) Click on Alt + Enter key.  
 (3) Click 'Edit' and then select 'Find and Replace'.  
 (4) Go to the 'Home' tab and select 'Replace'.
41. Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, a certain mathematical operation on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the question?  
 (NOTE: A two/three-digit number cannot be broken into individual digits for operations, e.g. if 37 is followed by 10, the operation cannot be  $3 + 7$  as a two-digit number cannot be broken into individual digits.)  
 $11 - 12 - 13 - 26; 19 - 20 - 21 - 42$   
 (1)  $9 - 10 - 11 - 24$   
 (2)  $3 - 4 - 5 - 12$   
 (3)  $7 - 8 - 9 - 18$   
 (4)  $4 - 5 - 6 - 10$
42. Who were the winners of the Balbir Singh Sr Award for Player of the Year 2025 in the men's and women's categories?  
 (1) PR Sreejesh and Navjot Kaur.  
 (2) Harmanpreet Singh and Vandana Katariya.  
 (3) Manpreet Singh and Rani Rampal.  
 (4) Harmanpreet Singh and Savita Punia.
43. Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers.  
 (Left)  $6 @ 8 £ 5 @ \$ 7 \& 3 6 \& \# 9 \# 1 * £ 5$  (Right)  
 How many such numbers are there where each of which is immediately preceded by a symbol and also immediately followed by another number?  
 (1) Two (2) Four (3) Three (4) One
44. A, B, C, D, G, H, and I are sitting around a circular table facing the centre. H sits to the immediate right of D. Only three people sit between H and I when counted from the left of H. Only three people sit between D and C. A sits to the immediate right of G. How many people sit between D and G when counted from the right of G?  
 (1) One (2) Three (3) Two (4) Four
45. The difference between the compound interest, compounded annually and the simple interest if ₹ 17,700 is deposited at 4% rate of interest per annum for 2 years is:  
 (1) 27.62 (2) 28.32 (3) 33.42 (4) 18.12
46. If Vishal covers 184 km in a boat in 48 hours against the stream and he takes 12 hours with the stream, then find the speed of the stream.  
 (1) 13.66 km/hr (2) 14.36 km/hr  
 (3) 10.64 km/hr (4) 5.75 km/hr
47. Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers.  
 (Left)  $4 6 \& 8 \$ 7 \& 3 9 \# \% 4 6 @ £ 5 \Omega 9 \# 1 * 7$  (Right)

How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

- (1) Three (2) Five  
(3) Six (4) Four

48. A group of numbers/symbols is coded using letter codes as per the codes given below and the conditions that follow. If none of the conditions apply, then codes for the respective number/symbol to be followed directly as given in the table.

Number/ Symbol	3	9	7	&	2	@	5	%	1	8	Δ	4	6
Code	L	C	Z	M	D	W	A	P	R	T	F	B	K

**Conditions:**

(i) If the first element is a symbol and the last a number, the codes for these two (the first and the last elements) are to be interchanged.

(ii) If the first element is an odd number and the last an even number, the first and last elements are to be coded as ©.

(iii) If both the second and third elements are perfect squares, the third element is to be coded as the code for the second element.

What will be the code for the following group?

@ 9 7 8 3

- (1) LCZTW (2) TCBLW  
(3) WTCBL (4) LCTBW

49. How many recognised styles of Vedic recitation (Pathas) are there?

- (1) Ten (2) Eleven  
(3) Seven (4) Nine

50. The India–Bhutan boundary is primarily defined by which of these?

- (1) Border fencing  
(2) Desert  
(3) Trade posts  
(4) Mountains and treaties

51. In a certain code language, 'MUTE' is coded as '3517' and 'EARS' is coded as '2458'. What is the code for 'E' in the given code language?

- (1) 7 (2) 5 (3) 2 (4) 8

52. What is the primary purpose of the American Standard Code for Information Interchange (ASCII)?

- (1) To enable secure encryption of data for internet transmission.  
(2) To design a graphical user interface for operating systems.  
(3) To create a programming language for text-based applications.  
(4) To define a standardised set of codes for representing text and control characters.

53. Which of the following letter–clusters should replace # and % so that the pattern and relationship followed between the letter–cluster pair on the left side of :: is the same as that on the right side of ::?

# : MLD :: VAM : %

- (1) # = YFP, % = BKS (2) # = SVJ, % = YFP  
(3) # = PQG, % = SVJ (4) # = BKS, % = PQG

54. A vendor bought lemons at 7 for ₹ 1. How many lemons must he sell for ₹ 1 to gain 40%?

- (1) 6 (2) 9 (3) 5 (4) 7

55. The 2025 World Economic Forum introduced which initiative focusing on India's role in global geopolitics and innovation?

- (1) Indo–Pacific Forum  
(2) Global India Dialogues  
(3) Bharat 2030  
(4) India Rising

56. NITI Aayog released the inaugural Fiscal Health Index (FHI) 2025. Which state topped the index with the highest overall score, indicating strong fiscal management?

- (1) Karnataka (2) Odisha  
(3) Tamil Nadu (4) Maharashtra

57. What powers were reinstated to the States by the 105<sup>th</sup> Constitutional Amendment Act?

- (1) Power to form new states.  
(2) Power to levy GST.  
(3) Power to identify Socially and Educationally Backward Classes (SEBCs), including Other Backward Classes (OBCs).  
(4) Power to decide election dates.

58. 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 deers are lions.

Some frogs are deers.

Some horses are lions.

**Conclusions:**

(I) Atleast some lions are frogs.

(II) Some deers are horses.

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

59. 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'.

How is M related to Q if 'M + N ÷ O × P – Q'?

- (1) Brother's wife's father's mother  
(2) Brother's wife's mother's sister  
(3) Brother's wife's father's sister  
(4) Brother's wife's mother's mother

60. ABCD is a trapezium in which BC || AD and AC = CD. If ∠ABC = 69° and ∠BAC = 23°, then what is the measure of ∠ACD (in degree)?

- (1) 4° (2) 7° (3) 14° (4) 10°

61. Article 31B was introduced to protect which type of laws from court challenges?  
 (1) Land reform laws (2) Language laws  
 (3) Taxation laws (4) Environmental laws
62. Which country hosted the 78<sup>th</sup> Cannes Film Festival in May 2025?  
 (1) Spain (2) France  
 (3) The Netherlands (4) Germany
63. What type of coastal plain are the Western coastal plains of India classified as?  
 (1) Deltaic coastal plain  
 (2) Tidal coastal plain  
 (3) Emergent coastal plain  
 (4) Submerged coastal plain
64. Who among the following is NOT considered a leader of the Moderates in the Indian National Congress?  
 (1) Gopal Krishna Gokhale  
 (2) Aurobindo Ghosh  
 (3) Dadabhai Naoroji  
 (4) Ferozshah Mehta
65. What is the average of the first 10 prime numbers?  
 (1) 15.8 (2) 14 (3) 16 (4) 12.9
66. Which of the following is the correct way to start a new blank presentation in MS PowerPoint?  
 (1) Press Ctrl + N  
 (2) Click File → Open  
 (3) Press Ctrl + O  
 (4) Click Insert → New Slide
67. What should come in place of the question mark (?) in the given series based on the English alphabetical order?  
 NKR PMT ROV TQX?  
 (1) VRZ (2) VSY  
 (3) VSZ (4) VRY
68. Find the volume (in cm<sup>3</sup>) of the largest right circular cone that can be cut out from a cube with an edge of 8 cm.  
 Use  $\pi = \frac{22}{7}$   
 (1)  $136\frac{2}{21}$  (2)  $134\frac{2}{21}$   
 (3)  $138\frac{2}{21}$  (4)  $127\frac{2}{21}$
69. During which dynasty did the Mongols, led by Qutlugh Khwaja, besiege Delhi and inflict significant damage?  
 (1) Khalji Dynasty (2) Sayyid Dynasty  
 (3) Mughal Dynasty (4) Suri Dynasty
70. Which of the following statements is NOT correct with reference to the p-block elements?  
 (1) They are also called transition elements.  
 (2) They include non-metals and noble gases.  
 (3) Their outermost configuration varies from  $ns^2np^1$  to  $ns^2np^6$ .  
 (4) They belong to Groups 13–18.
71. Simplify:  $127 - [7 \times (1 - 5 + 4)] \div 91$   
 (1) 135 (2) 133  
 (3) 127 (4) 118
72. Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers.  
 (Left) 3 \* 9 & % 4 6 @ 9 # 1 \* £ 5 8 \$ 7 & 3 Ω (Right)  
 How many such symbols are there each of which is immediately preceded by a symbol and also immediately followed by a number?  
 (1) Two (2) One  
 (3) Three (4) Four
73. Select the number from among the given options that can replace the question mark (?) in the following series. 215 187 161 137 115 95?  
 (1) 87 (2) 81  
 (3) 77 (4) 75
74. A patient lacking bile production would suffer from deficiency in absorption of \_\_\_\_\_.  
 (1) water (2) glucose  
 (3) amino acids (4) fat-soluble vitamins
75. One pipe can fill the tank in 21 minutes while another pipe can empty completely the filled tank in 24 minutes. If both the pipes are operated together on empty tank, how long (in minutes) will it take to fill one-fourth of the tank?  
 (1) 42 (2) 126  
 (3) 84 (4) 168
76.  $6893.5 \times 603.3 \times 0.3019$  is equal in value to:  
 (1)  $6.8935 \times 6.033 \times 301.9$   
 (2)  $6.8935 \times 60.33 \times 30.19$   
 (3)  $68.935 \times 6033 \times 3.019$   
 (4)  $689.35 \times 603.3 \times 301.9$
77. The arithmetic mean of the observations 28, 31, 40, 63, 57, 37, 34, 70 and 99 is:  
 (1) 55 (2) 50  
 (3) 41 (4) 51
78. What happens if a law is declared unconstitutional under judicial review?  
 (1) It becomes null and void.  
 (2) It is amended by the President.  
 (3) It remains valid but unenforceable  
 (4) It is sent back to the Parliament for reconsideration.
79. When was the protection and improvement of environment and safeguarding of forests and wildlife as a directive added in the Constitution of India?  
 (1) 2011 (2) 1976  
 (3) 1978 (4) 2002
80. When  $x$  is added to each of 22, 26, 19 and 21, then the numbers so obtained, in this order, are in proportion. Then, if  $2x : y :: y : (4x - 8)$ , and  $y > 0$ , what is the value of  $y$ ?  
 (1) 48 (2) 37  
 (3) 46 (4) 54

81. A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6.  
Each person lives on a different floor.  
F lives on an even-numbered floor, but not on the 6th floor. F lives immediately above A. The sum of the floor numbers of D and F is 7. The sum of the floor numbers of F and C is 3.  
How many people live between B and F?  
(1) Two (2) Four  
(3) Three (4) One
82. What happens to the particles of a substance when it is heated?  
(1) They stop moving.  
(2) They disappear.  
(3) They move faster.  
(4) They move slower.
83. If  $x - \frac{1}{x} = 4$ , then the value of  $x^3 - \frac{1}{x^3}$  is:  
(1) 76 (2) 414  
(3) 420 (4) 259
84. According to the Economic Survey 2025, what was the unemployment rate in India for 2023–24?  
(1) 4.5% (2) 6.5%  
(3) 5.2% (4) 3.2%
85. How many new greenfield expressways are targeted for construction in India by the financial year 2024–25?  
(1) 30 (2) 10  
(3) 15 (4) 22
86. Shyam starts from point A and drives 11 km towards the east. He then takes a right turn and drives 5 km, turns right and drives 12 km. He then takes a right turn and drives 10 km. He takes a final right turn, drives 1 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degree turns only unless specified.)  
(1) 5 km to the north (2) 5 km to the south  
(3) 4 km to the south (4) 4 km to the north
87. Manoj has 200 litres of Oil A and 274 litres of Oil B. He fills a number of identical containers with the two types of oil in a manner that each container has only one type of oil, and all containers are completely filled. What can be the maximum volume (in litres) of each container that Manoj uses, so that all the oil that Manoj has, of both the types, can be poured into these containers?  
(1) 2 (2) 10  
(3) 8 (4) 3
88. What is India's renewable energy target by the year 2030 in terms of installed capacity?  
(1) 500 GW (2) 300 GW  
(3) 175 GW (4) 100 GW
89. Each of M, N, O, P, Q, R and S has an exam on a different day of the week, starting from Monday and ending on Sunday of the same week. S has an exam on Friday. Only two people have exams between S and R. O has an exam immediately before N. M has an exam immediately after P. S has an exam on one of the days after M. On which day does Q have an exam?  
(1) Wednesday (2) Sunday  
(3) Monday (4) Friday
90. Which factor plays the most dominant role in the seasonal reversal of wind direction in India?  
(1) Latitude  
(2) Monsoonal pressure system  
(3) Relief  
(4) Ocean currents
91. Find roots of  $4m^2 + 6m + 2 = 0$   
(1)  $-\frac{1}{2}$  and  $-4$  (2)  $\frac{1}{2}$  and 1  
(3)  $-\frac{1}{2}$  and  $-1$  (4)  $-\frac{1}{2}$  and 4
92. Akshay spends 40% of his income. If he saves ₹ 24,000, then his income (in ₹) is:  
(1) 9,600 (2) 40,000  
(3) 41,000 (4) 39,000
93. P, Q, R, S, T, U and V are sitting around a circular table facing the centre. Only three people sit between R and Q when counted from the left of R. Only three people sit between V and U when counted from the right of U. S sits to the immediate right of V. T is an immediate neighbour of U as well as Q. How many people sit between T and P when counted from the right of P?  
(1) 4 (2) 2  
(3) 3 (4) 1
94. In Gond painting, what is the traditional name given to the handmade brush used by artists locally?  
(1) Kalam (2) Koochi  
(3) Kaadi (4) Likhani
95. RD 14 is related to UF 10 in a certain way. In the same way, CR 10 is related to FT 6. To which of the given options is ON 1 related, following the same logic?  
(1) RS – 1 (2) PR – 9  
(3) RP – 3 (4) QF – 7
96. If the selling price of a bed is 2-times of initial, then the profit is 11-times of initial. Find the initial profit percentage.  
(1)  $9\frac{2}{11}\%$  (2) 11%  
(3)  $11\frac{1}{9}\%$  (4) 9%
97. What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $66 \div 8 - 231 \times 11 + 14 = ?$   
(1) 545 (2) 525  
(3) 515 (4) 535

98. According to luxury resort developer Fine Acers 2025, the market for branded residences and resorts in India is expected to reach ₹8,610 crore (US\$ 1 billion) by  
 (1) 2026 (2) 2029  
 (3) 2028 (4) 2027
99. Which of the following is NOT one of the 10 indicators used in calculating the Multidimensional Poverty Index (MPI)?  
 (1) Years of schooling (2) Access to electricity  
 (3) Internet connectivity (4) Nutrition
100. The marked price of a bookshelf is ₹ 3,100, which is 25% above the cost price. It is sold at a discount of 12% on the marked price. Find the profit percentage.  
 (1) 11% (2) 8%  
 (3) 9% (4) 10%

□□

## ANSWER KEY

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

## SOLVED PAPER—01

### HINTS AND SOLUTIONS (6th June 2025 Shift 01)

1. Correct option is (2).

Explanation: Sides of triangle are  $x, x - 13, x - 26$

$$\therefore x > x - 13 > x - 26$$

$$x^2 = (x - 13)^2 + (x - 26)^2$$

$$x^2 = x^2 - 26x + 169 + x^2 - 52x + 676$$

$$0 = x^2 - 78x + 845$$

$$(x - 65)(x - 13) = 0$$

$$\therefore x = 13, 65$$

$$\text{but, } x > 26$$

$$\therefore x = 65$$

$$\text{Area of triangle} = \frac{1}{2}(x - 13)(x - 26)$$

$$= \frac{(65 - 13)(65 - 26)}{2}$$

$$= \frac{52 \times 39}{2}$$

$$= 1014$$

2. Correct option is (1).

Explanation:  $p = \frac{(1 + \sin\theta)(1 - \sin\theta)}{(1 + \cos\theta)(1 - \cos\theta)(\cot\theta)}$

$$\therefore (a + b)(a - b) = a^2 - b^2$$

$$\therefore p = \frac{1 - \sin^2\theta}{(1 - \cos^2\theta)\cot\theta}$$

$$= \frac{\cot^2\theta}{\cot\theta} = \cot\theta$$

$$= \frac{8}{7}$$

3. Correct option is (1).

Explanation: Let the number be  $x$ .

$$\therefore 3x - 24 = 258$$

$$3x = 258 + 24$$

$$3x = 282$$

$$x = 94$$

4. Correct option is (3).

Explanation: Area of rectangle =  $169 \times 154$

$$\text{Area of circle} = \pi r^2$$

$$\therefore \frac{22}{7}r^2 = 169 \times 154$$

$$r^2 = 169 \times 7 \times 7$$

$$r = 13 \times 7$$

$$r = 91$$

$$\text{Circumference} = 2\pi r$$

$$= 2 \times \frac{22}{7} \times 91 = 44 \times 13$$

$$= 572$$

5. Correct option is (2).

Explanation: Richard Gere was honoured with the 2025 International Goya Award for his contributions to global cinema. He is an American producer and actor. The Goya Award is Spain's highest award for an international filmmaker. This was given for the first time in 2022.

6. Correct option is (3).

Explanation:

$$1. \quad \begin{array}{ccc} S & \xrightarrow{+2} & U & \xrightarrow{-5} & P \\ 19 & & 16 & & 16 \end{array}$$

$$2. \quad \begin{array}{ccccc} N & \xrightarrow{+2} & P & \xrightarrow{-5} & K \\ 14 & & 16 & & 11 \end{array}$$

$$3. \quad \begin{array}{ccccc} P & \xrightarrow{+2} & R & \xrightarrow{+4} & V \\ 16 & & 18 & & 22 \end{array}$$

$$4. \quad \begin{array}{ccc} G & \xrightarrow{+2} & I & \xrightarrow{-5} & D \\ 7 & & 9 & & 4 \end{array}$$

Except option (3) all are following the same pattern.

7. Correct option is (4).

$$\begin{aligned} \text{Explanation: } & \sqrt[6]{729} + \sqrt[4]{65536} + \sqrt[3]{5832} + \sqrt{1764} \\ &= 3 + 16 + 18 + 42 \\ &= 19 + 60 \\ &= 79 \end{aligned}$$

8. Correct option is (4).

Explanation: The arrangement will be A D C E B G F  
Three boxes (B, G, F) are kept below E.

9. Correct option is (4).

Explanation: The given pattern:

$$\begin{array}{ccc} W & J & 15 \\ \downarrow -2 & \downarrow +4 & \downarrow -4 \end{array}$$

$$\begin{array}{ccc} U & N & 11 \end{array}$$

$$\begin{array}{ccc} Q & H & 8 \end{array}$$

$$\downarrow -2 \quad \downarrow +4 \quad \downarrow -4$$

$$\begin{array}{ccc} O & L & 4 \end{array}$$

$$\begin{array}{ccc} R & I & 3 \end{array}$$

$$\downarrow -2 \quad \downarrow +4 \quad \downarrow -4$$

$$\begin{array}{ccc} P & M & -1 \end{array}$$

10. Correct option is (3).

Explanation: As of 15 April 2025, Virat Kohli became the first player to register a combined total of 1000 fours and sixes in IPL history. He achieved this milestone during an IPL 2025 match of the Royal Challengers Bengaluru against the Delhi Capitals in Bengaluru. Kohli has 721 fours and 279 sixes in his vast IPL career. In addition, he is the only player to surpass 8000 runs.

11. Correct option is (1).

Explanation: Joy lab poet = to dl dh  
poet win union = dl to kb  
find the common word from both side hence  
code for poet will be dl.

**12. Correct option is (3).**

**Explanation:** When an Indian citizen renounces their citizenship, they lose their Indian citizenship. A Renunciation/Surrender Certificate is issued to applicants who surrender their Indian passport after acquiring foreign nationality. India does not support dual citizenship under the Indian Citizenship Act, 1955. Holding an Indian passport/acquiring an Indian passport/travelling on an Indian passport after acquiring foreign citizenship is an offence under the Indian Passport Act, 1967.

**13. Correct option is (1).**

**Explanation:** Arrange in ascending order:

1 2 4 6 7 8 9

Fourth number from left will be 6.

**14. Correct option is (1).**

**Explanation:**

$$\text{Distance covered} = \frac{2}{3} \times 387$$

$$= 258$$

$$\text{Remaining distance} = 387 - 258$$

$$= 129$$

$$\text{Time taken} = 21 \times \frac{5}{7}$$

$$= 15 \text{ hours}$$

$$\text{time remaining} = 21 - 15$$

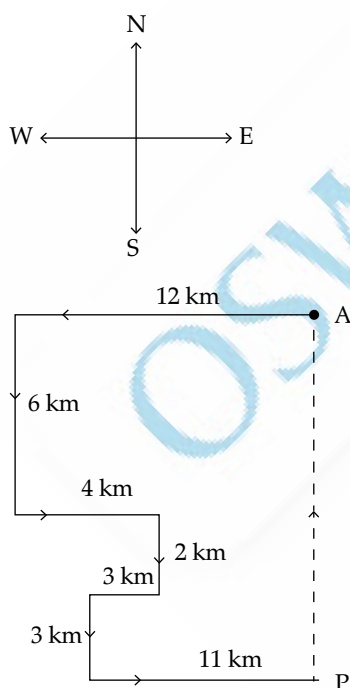
$$= 6 \text{ hours}$$

$$\text{So, speed} = \frac{129}{6}$$

$$= 21.5 \text{ km/hr}$$

**15. Correct option is (3).**

**Explanation:**



$$AP = 6 + 2 + 3 = 11 \text{ km}$$

**16. Correct option is (1).**

**Explanation:** The Punjab government planned to develop the Jhajjar-Bachauli wildlife sanctuary of Sri Anandpur Sahib into an eco-tourism destination and the first leopard safari destination in the state. This will promote tourism and wildlife conservation in Punjab. The sanctuary is located in Bacholi, Jhajjar, Punjab, and is near the Sutlej river.

**17. Correct option is (1).**

**Explanation:** The theme for Indian Navy Day 2024 was "Strength and Power through Innovation and Indigenisation". Indian Navy Day is celebrated on 4 December every year, as this day honours the Indian Navy's Operation Trident, conducted during the 1971 Indo-Pak war. Under Operation Trident, the Navy successfully attacked Karachi Port in Pakistan.

**18. Correct option is (3).**

**Explanation:**

$$\text{Using, } SI = \frac{PRT}{100}$$

$$\text{Interest} = \frac{350 \times 1.5 \times 20}{100}$$

$$= 350 \times 0.3 = 105$$

**19. Correct option is (3).**

**Explanation:** Of the given options, the question mark (?) cannot be used as a character when renaming in Windows. Some other reserved characters in the filename are less than (<), greater than (>), colon (:), double quote ("), forward slash (/), backslash (\), vertical bar (|), and asterisk (\*).

**20. Correct option is (1).**

**Explanation:**

12	4
L	D
↓ -1	↓ +4
K	H
11	8
15	16
O	P
↓ -4	↓ -4
K	L
11	12
9	10
I	J
↓ -4	↓ -4
E	F
5	6
13	14
M	N
↓ -4	↓ -4
I	J
9	10

**21. Correct option is (3).**

**Explanation:** The command to delete all .log files in the current directory without asking for confirmation in

Windows 10 CMD is `del *.log /q`.

**22. Correct option is (2).**

**Explanation:** The third edition of Joint Special Forces Exercise CYCLONE was conducted at Mahajan Field Firing Ranges in Rajasthan. Exercise CYCLONE is an annual event conducted alternately in India and Egypt. The exercise will focus on a high degree of physical fitness, joint planning and joint tactical drills.

**23. Correct Option is (4).**

**Explanation:**

D	R	E	A	M
↓ -4	↓ -4	↓ -4	↓ -4	↓ -4
Z	N	A	W	I
D	A	N	C	E
↓ -4	↓ -4	↓ -4	↓ -4	↓ -4
Z	W	J	Y	A
D	O	U	B	T
↓ -4	↓ -4	↓ -4	↓ -4	↓ -4
Z	K	Q	X	P

**24. Correct option is (1).**

**Explanation:** Mode = 52.7

Median = 65

mode =  $3 \times \text{median} - 2 \times \text{mean}$

$2 \times \text{mean} = 3 \times 65 - 52.7$

$= 142.3$

Mean = 71.2

**25. Correct option is (1).**

**Explanation:** Let two numbers are  $a, b$ .

Mean proportion =  $\sqrt{ab}$

$\therefore 68 = \sqrt{272x}$

$x = \frac{68 \times 68}{272}$

$x = 17$

**26. Correct option is (4).**

**Explanation:**  $x : y : z = 6 : 59 : 41$

Profit = 3180

share of  $y$  - share of  $z = \frac{3180 \times (59 - 41)}{6 + 59 + 41}$

$= \frac{3180 \times 18}{106}$

$= 540$

**27. Correct option is (1).**

**Explanation:**

In one day A complete  $\frac{1}{25}$  part.

In one day B complete  $\frac{1}{18}$  part

Work done by A =  $\frac{4}{25}$  part

remaining work =  $1 - \frac{4}{25}$

$= \frac{21}{25}$  part

Time taken by B =  $\frac{21}{25} \div \frac{1}{18}$

$= \frac{21 \times 18}{25}$

$= \frac{378}{25}$

$= 15 \frac{3}{25}$

**28. Correct option is (2).**

**Explanation:** Kanishka, the Kushana ruler, was a patron of Buddhism. He convened the fourth Buddhist council in Kashmir. He played a significant role in spreading the teachings of Buddhism and promoting the growth of mahayana Buddhism. He founded monasteries and erected stupas and buddhist temples.

**29. Correct option is (2).**

**Explanation:** Of the given options, black soil has the highest water-retaining capacity. Black soil is rich in clay content and retains water due to its flat-shaped particles and numerous small, irregularly shaped pores that slow water flow. Black soil is also known as regur soil and it is poor in nitrogen content. This soil is most commonly used to grow cotton, jowar, and maize, etc.

**30. Correct option is (3).**

**Explanation:** Interchange + & - or  $\times$  and  $\div$

According to given condition we get,

$= 56 + 12 \div 4 \times 9 - 5$

$= 56 + (27 - 5)$  using BODMAS rule,

$= 56 + 22 = 78$

**31. Correct option is (4).**

**Explanation:** Initial average = 40

Change in a reading =  $50 - 33 = 17$

New average =  $40 + \frac{17}{10}$

$= 41.7$

**32. Correct option is (4).**

**Explanation:** Let initial salary be  $x$

Reduced by 16% =  $x \times 0.84$

Raised by 10% =  $0.84x \times 1.1$

$= 0.924x$

Change in salary =  $x - 0.924x$

$= 0.076x$

%change =  $\frac{0.076x}{x} \times 100$

$= 7.6\%$  (less)

**33. Correct option is (4).**

**Explanation:** The privy purses were officially abolished in 1971 by the 26<sup>th</sup> Amendment of the Indian Constitution. The privy purses were payments made to the royal families of erstwhile

princely states. However, Indira Gandhi decided to abolish privy purses in 1971 as it was an added pressure on the exchequer of India. This decision followed a two-year legal battle and ultimately, they were abolished.

**34. Correct option is (1).**

**Explanation:**

V	Q	L
↓ -2	↓ -2	↓ -2
T	O	J
↓ -2	↓ -2	↓ -2
R	M	H
↓ -2	↓ -2	↓ -2
P	K	F
↓ -2	↓ -2	↓ -2
N	I	D

**35. Correct option is (1).**

**Explanation:** Original number: 1, 4, 3, 7, 5, 8, 6

Apply the rules: Add 1 to each odd digit

Subtract 2 from each even digit

Modified digits:  $1 \rightarrow 2$ ,  $4 \rightarrow 2$ ,  $3 \rightarrow 4$ ,  $7 \rightarrow 8$ ,

$5 \rightarrow 6$ ,  $8 \rightarrow 6$ ,  $6 \rightarrow 4$

So, new number: 2, 2, 4, 8, 6, 6, 4

Highest digit = 8

Lowest digit = 2

Difference =  $8 - 2 = 6$

**36. Correct option is (3).**

**Explanation:** The Desert National Park covers an area of 3162 km<sup>2</sup>, of which 1900 km<sup>2</sup> is in Jaisalmer district and the remaining 1262 km<sup>2</sup> is in Barmer district of Rajasthan State. It is a natural habitat of the Great Indian Bustard (GIB), the state bird of Rajasthan. In India, it is protected under the Indian Wildlife (Protection) Act, 1972. GIB is a critically endangered species on the International Union for Conservation of Nature (IUCN) list.

**37. Correct option is (4).**

**Explanation:** Lack of Indian representation was the primary reason for the protest against the Simon Commission in 1928. In 1927, the Simon commission was formed to review the government of India act 1919. Officially, it was also known as the Indian Statutory Commission. Sir John Simon was the head of the commission, and it had seven British members. It arrived in India on February 3, 1928. Protestors shouted 'Simon, Go back' to express their displeasure and anger.

**38. Correct option is (2).**

**Explanation:** The differences between terms are:

$901 \rightarrow 900 (-1)$

$900 \rightarrow 897 (-3)$

$897 \rightarrow 892 (-5)$

$892 \rightarrow 885 (-7)$

So the next difference should be  $-9: 885 - 9 = 876$

Hence, the correct option is (2).

**39. Correct option is (2).**

**Explanation:** The Government of India launched operation Brahma to help Myanmar in the aftermath of the devastating earthquake. Under operation Brahma, India provided necessary support, including Search and Rescue (SAR), humanitarian aid, disaster relief and medical assistance to Myanmar. The operation was conducted in conjunction with the Headquarters Integrated Defence Staff, the Indian Army, Indian Air Force and NDRF.

**40. Correct option is (2).**

**Explanation:** When an application is run in a console window, one can press ALT+ENTER to switch the console into full-screen view. The application running in the console window is displayed in full screen. A console is a window that appears to run character-based applications from Windows NT, MS-DOS, or OS/2.

**41. Correct option is (3).**

**Explanation:**

$11 \xrightarrow{+1} 12 \xrightarrow{+1} 13 \xrightarrow{\times 2} 26$

$19 \xrightarrow{+1} 20 \xrightarrow{+1} 21 \xrightarrow{\times 2} 42$

similarly

$7 \xrightarrow{+1} 8 \xrightarrow{+1} 9 \xrightarrow{\times 2} 18$

**42. Correct option is (4).**

**Explanation:** Team India captain Harmanpreet Singh and senior goalkeeper Savita Punia won the Hockey India Balbir Singh senior player of the year award in the men's and women's categories.

In men's hockey, Harmanpreet led India to their second consecutive bronze medal at the 2024 Paris Olympics. He was also a part of the Tokyo Games bronze medal-winning side.

In women's hockey, Savita was a member of the Indian team that came close to winning a bronze in the Tokyo Olympics. However, the team lost the third-place match to Great Britain. It was a double celebration for Savita as she also won the Hockey India Baljit Singh goalkeeper of the year award for 2024. This was the third time that Savita won the award.

**43. Correct option is (4).**

**Explanation:** Number which is immediately preceded by a symbol and also immediately followed by another number:

Only the digit 3 satisfies both conditions:

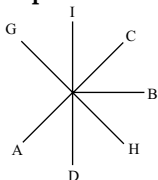
It is preceded by '&'

It is followed by '6'

Hence, the correct answer is one.

44. Correct option is (4).

Explanation:



As evident, only A sits between D and G when counted from the right of G.

45. Correct option is (2).

Explanation:

$$\begin{aligned}\text{Simple interest} &= \frac{17700 \times 4 \times 2}{100} \\ &= 1416\end{aligned}$$

$$\begin{aligned}\text{Compound interest} &= 17700 \left\{ \left( 1 + \frac{4}{100} \right)^2 - 1 \right\} \\ &= 17700 \{ 1.0816 - 1 \} \\ &= 1444.32\end{aligned}$$

$$\text{Difference} = 1444.32 - 1416 = 28.32$$

46. Correct option is (4).

Explanation:

Let speed of boat =  $u$

speed of stream =  $v$

$$\therefore 184 = 48(u - v) \quad \dots(1)$$

$$23 = 6(u - v)$$

$$184 = 12(u + v)$$

$$46 = 3(u + v) \quad \dots(2)$$

from Eqs. (1) and (2), we get,

$$\frac{23}{6} + \frac{46}{3} = 2u$$

$$\frac{115}{6} = 2u$$

$$u = \frac{115}{12}$$

$$u = 9.58$$

Now from equation (2),

$$\frac{46}{3} = v + 9.58$$

$$15.33 - 9.58 = v$$

$$v = 5.75$$

47. Correct option is (3).

Explanation:

$$4 \ 6 \ \$ \ 8 \ \$ \ 7 \ \& \ 3 \ 9 \ \# \ \% \ 46 \ @ \ 5 \ \Omega \ 9 \ \# \ 1 \ * \ 7$$

$$6\&8, 8\$7, 7\&3, 5\Omega 9, 9\#1, 1*7$$

48. Correct option is (1).

Explanation: Code fore @ 9783 will be LCZTW

49. Correct option is (2).

Explanation: There are eleven ways of Vedic recitation (*Pathas*). These are *Samhita*, *Pada*, *Krama*, *Jata*, *Maalaa*, *Sikha*, *Rekha*, *Dhwaja*, *Danda*, *Rathaa* and

*Ghana*. Vedic chanting involves two components—tone and recitation. The chanting uses four different tones—Udatta, Anudaatta, Svarita and Deergha Svarita.

50. Correct option is (4).

Explanation: India shares a 699 km long border with Bhutan and is mostly covered in the foothills of the Himalayas. The basic framework of India-Bhutan relations has been the treaty of Friendship and Cooperation signed in 1949 between the two countries, which was revised in February 2007.

51. Correct option is (2).

Explanation: M U T E – 3 5 17

E A R S – 2 4 5 8

find the common letter and common digit hence code for E = 5.

52. Correct option is (4).

Explanation: The American Standard Code for Information Interchange (ASCII) defines a standardised set of codes for representing text and control characters. The ASCII code represents a total of 128 unique characters. These characters are encoded as values ranging from 0 to 127, storable as a seven-bit integer. Out of these 128 characters, 95 are printable characters.

53. Correct option is (3).

Explanation:

P	Q	G
↓ -3	↓ -5	↓ -3
M	L	D
Similarly,		
V	A	M
↓ -3	↓ -5	↓ -3
S	V	J

54. Correct option is (3).

Explanation: 40% profit = 0.4

Total price = 1 + 0.4

$$= 1.4$$

7 lemons sold at ₹1.4

∴ 5 lemons sold at ₹1.

55. Correct Option is (2).

Explanation: At the 2025 World Economic Forum, the Global India Dialogues initiative was introduced to highlight India's growing role in global geopolitics and innovation. This platform aims to bring together global leaders, innovators, and policymakers to discuss India's contributions to shaping the future of technology, sustainability, and international cooperation.

56. Correct option is (2).

Explanation: Odisha topped the Fiscal Health Index (FHI) 2025, followed by Chhattisgarh, Goa, Jharkhand and Gujarat. The FHI analysis covers 18 major states that drive the Indian economy in terms of their contribution to India's GDP, demography, total public expenditure, revenues,

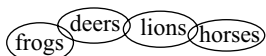
and overall fiscal stability. The composite Fiscal Health Index was developed using data from the Comptroller and Auditor General of India (CAG), covering the financial year 2022–23.

57. **Correct option is (3).**

**Explanation:** The 105<sup>th</sup> Constitutional Amendment Act, passed in 2021, restored the power of state governments to identify and classify socially and Educationally Backward Classes (SEBCs), including Other Backward Classes (OBCs). This amendment effectively reversed the impact of the 102nd Amendment, which had been interpreted by the Supreme Court as restricting the states' ability to create their own lists of OBCs. The ruling stated that the power was vested exclusively with the Central government.

58. **Correct option is (2).**

**Explanation:**



from the venn diagram neither conclusion (I) nor (II) follows.

59. **Correct option is (1).**

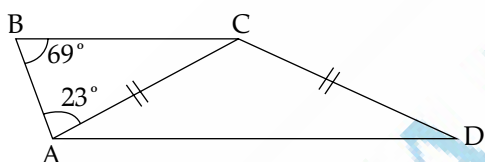
**Explanation:**

$$\begin{array}{c} M(-) \\ | \\ N(+) \\ | \\ (-) O = P (+) - Q \end{array}$$

M is Q's brother's wife's father's mother

60. **Correct option is (1).**

**Explanation:**



$$\begin{aligned} \angle ACB &= 180^\circ - 69^\circ - 23^\circ \\ &= 180 - 92^\circ \\ &= 88^\circ \\ \angle BCA &= \angle CAD \\ \angle CAD &= \angle CDA \quad (\because AC = CD) \\ \therefore \angle ACD &= 180^\circ - 88^\circ - 88^\circ \\ &= 4^\circ \end{aligned}$$

61. **Correct option is (1).**

**Explanation:** Article 31B was introduced by the constitution (First Amendment Act) in 1951. It protects the acts and regulations included in the ninth schedule from being challenged and invalidated because they violated fundamental rights.

62. **Correct option is (2).**

**Explanation:** France hosted the 78<sup>th</sup> Cannes Film Festival. French actor Laurent Lafitte hosted the

opening and closing ceremonies of the festival. French actress Juliette Binoche was the jury president for the competition.

63. **Correct option is (4).**

**Explanation:** The western coastal plains of India are classified as submerged coastal plains because a portion of the landmass along the coastline has subsided relative to the sea level, resulting in the land being submerged underwater. This submergence has created a narrow strip of land with favorable conditions for the development of ports.

64. **Correct option is (2).**

**Explanation:** Aurobindo Ghosh was associated with the Extremist faction of the Indian National Congress, which believed in assertive methods like boycotts and protests to achieve self-rule.

In contrast, Gopal Krishna Gokhale, Dadabhai Naoroji, and Ferozshah Mehta were key leaders of the Moderates, who believed in constitutional methods, dialogue, and gradual reforms under British rule.

65. **Correct option is (4).**

**Explanation:** Numbers are 2, 3, 5, 7, 11, 13, 17, 19, 23 and 29.

$$\begin{aligned} \text{Average} &= \frac{2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 + 23 + 29}{10} \\ &= 12.9 \end{aligned}$$

66. **Correct option is (1).**

**Explanation:** To start a new blank presentation in Microsoft PowerPoint, press Ctrl+N. To open a new presentation in Microsoft PowerPoint, press the keyboard combination Ctrl + O.

67. **Correct option is (3).**

**Explanation:**

N	K	R
↓ +2	↓ +2	↓ +2
P	M	T
↓ +2	↓ +2	↓ +2
R	O	V
↓ +2	↓ +2	↓ +2
T	Q	X
↓ +2	↓ +2	↓ +2
V	S	Z

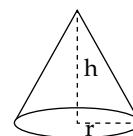
68. **Correct option is (2).**

**Explanation:**

$$\begin{aligned} r &= \frac{8}{2} \\ r &= 4 \\ h &= 8 \end{aligned}$$

$$\text{volume} = \frac{1}{3} \pi r^2 h$$

$$\begin{aligned} &= \frac{1}{3} \times \frac{22}{7} \times 16 \times 8 \\ &= \frac{2816}{21} \end{aligned}$$



$$= 134 \frac{2}{21}$$

69. **Correct option is (1).**

**Explanation:** The Mongols, under the leadership of Qutlugh Khwaja, besieged Delhi during the reign of the Khalji dynasty, specifically during the rule of Sultan Alauddin Khalji. In 1299, the battle of Killi was fought between the Mongols of the Chagatai Khanate and the Delhi Sultanate. Khalji was successful in expelling the Mongol forces from India.

70. **Correct option is (1).**

**Explanation:** *d*-block elements are called transition elements. These contain the elements of the groups 3-12 in which the *d* orbitals are progressively filled in each of the four long periods. The chemical properties of the *d*-block elements are transitional between those of *s* and *p*-block elements. *p*-block elements belong to groups 13-18. They include non-metals and noble gases. Their outermost configuration varies from  $ns^2np^1$  to  $ns^2np^6$ .

71. **Correct option is (3).**

**Explanation:**  $127 - [7 \times (1 - 5 + 4)] + 91$   
 $= 127 - \{7 \times 0\} + 91$   
 $= 127$

72. **Correct option is (1).**

**Explanation:**  $\& \% 4, * \in 5$

73. **Correct option is (3).**

**Explanation:** Observe the differences between consecutive terms:

$$215 - 187 = 28$$

$$187 - 161 = 26$$

$$161 - 137 = 24$$

$$137 - 115 = 22$$

$$115 - 95 = 20$$

Pattern: Decreasing by 2 each time.

Next difference = 18,  $95 - 18 = 77$

74. **Correct option is (4).**

**Explanation:** A patient lacking bile production would suffer from a deficiency in the absorption of fat-soluble vitamins. Bile is a yellow-green digestive fluid produced by the liver and stored in the gall bladder. It breaks down the fats into fatty acids. Without the presence of fat, the fat-soluble vitamins A, D, E and K cannot be absorbed properly.

75. **Correct option is (1).**

**Explanation:** In one minute pipe can fill  $\frac{1}{21}$  part.

In one minute pipe can empty  $\frac{1}{24}$  part

$$\text{Effective water} = \frac{1}{21} - \frac{1}{24}$$

$$= \frac{1}{168} \text{ part}$$

$$\text{Time required} = \frac{1}{\frac{1}{4} \div \frac{1}{168}}$$

$$= \frac{168}{4}$$

$$= 42 \text{ minutes}$$

76. **Correct option is (3).**

**Explanation:**  $6893.5 \times 603.3 \times 0.3019$

$$= 68935 \times 6033 \times 3019 \times 10^{-6}$$

$$\text{Option (1): } 68935 \times 6033 \times 3019 \times 10^{-8}$$

$$\text{Option (2): } 68935 \times 6033 \times 3019 \times 10^{-10}$$

$$\text{Option (3): } 68935 \times 6033 \times 3019 \times 10^{-6}$$

$$\text{Option (4): } 68935 \times 6033 \times 3019 \times 10^{-4}$$

Hence, option (3) is correct

77. **Correct option is (4).**

**Explanation:** Arithmetic mean =  $\frac{\text{Sum of all}}{n}$

$$= \frac{28 + 31 + 40 + 63 + 57 + 37 + 34 + 70 + 99}{9}$$

$$= \frac{459}{9} = 51$$

78. **Correct option is (1).**

**Explanation:** When a law is declared unconstitutional under judicial review, it becomes null and void. Judicial review is the power of courts to examine the actions of the legislature and executive of the government.

79. **Correct option is (2).**

**Explanation:** The protection and improvement of the environment and the safeguarding of forests and wildlife were added as a directive in the Constitution in 1976 via the 42<sup>nd</sup> Amendment of the Constitution. Article 48A was added in Part IV of the Indian Constitution. It states that the State shall endeavour to protect and improve the environment and to safeguard the forests and wildlife of the country.

80. **Correct option is (1).**

**Explanation:** Given, 22, 26, 19 and 21

$$22 + x, 26 + x, 19 + x, 21 + x$$

$$\therefore \frac{22 + x}{26 + x} = \frac{19 + x}{21 + x}$$

$$\frac{22 + x}{26 + x} - 1 = \frac{19 + x}{21 + x} - 1$$

$$\frac{-4}{26 + x} = \frac{-2}{21 + x}$$

$$42 + 2x = 26 + x$$

$$16 + 2x = 0$$

$$x = -16$$

$$\text{Now } 2x : y :: y : 4x - 8$$

$$\frac{2x}{y} = \frac{y}{4x - 8}$$

$$y^2 = 2x(4x - 8)$$

$$y^2 = -32(4 \times (-16) - 8)$$

$$y^2 = -32(64 + 8)$$

$$y^2 = 32 \times 72$$

$$y^2 = 32 \times 8 \times 9$$

$$y = 16 \times 3$$

$$y = 48$$

81. Correct option is (4).

Explanation:

6. E

5. D

4. B

3. A

2. F

1. C

Thus, only A lives between B and F

82. Correct option is (3).

**Explanation:** When a given substance is heated, its particles begin to move faster. On heating, the atoms and molecules gain kinetic energy and start moving faster. They overcome the force of attraction. In solids, there are vigorous vibrations, whereas in liquids and gases, there is rapid translational movement.

83. Correct option is (1).

Explanation:

$$x - \frac{1}{x} = 4$$

Squaring on both side,

$$x^2 + \frac{1}{x^2} - 2 = 16$$

$$x^2 + \frac{1}{x^2} = 18$$

$$\text{Now, } x^3 - \frac{1}{x^3} = \left(x - \frac{1}{x}\right) \left(x^2 + \frac{1}{x^2} + 1\right)$$

$$= 4(18 + 1)$$

$$= 76$$

84. Correct option is (4).

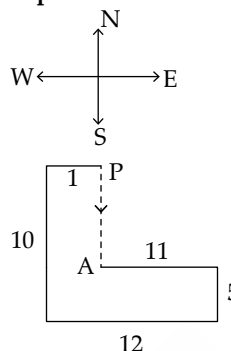
**Explanation:** According to the economic survey 2024–25, the unemployment rate in India declined to 3.2% in 2023–24, a significant improvement from 6% in 2017–18. The economic survey is an annual report assessing India's economy in the last financial year. It is prepared by the economic division of the Ministry of Finance under the supervision of the chief economic adviser of India. The finance minister presents it in the parliament one day before the union budget.

85. Correct option is (4).

**Explanation:** According to the National Highways Authority of India (NHAI) and the Ministry of Road Transport & Highways, India has planned to construct about 22 new greenfield expressways by the end of the financial year 2024–25. These projects total around 7,500 km and are part of the larger Bharatmala Pariyojana and Gati Shakti infrastructure push.

86. Correct option is (2).

Explanation:



$$PA = 10 - 5 = 5 \text{ km South}$$

87. Correct option is (1).

Explanation: Oil A = 200 L

Oil B = 274 L

$$200 = 25 \times 8$$

$$274 = 2 \times 137$$

$$\text{HCF}(200, 274) = 2$$

Hence, maximum volume = 2 L

88. Correct option is (1).

**Explanation:** India has a renewable energy target of achieving 500 GW from non-fossil sources by 2030. This target requires a funding of ₹ 33 lakh crores. One-third of the necessary investment would come from private investors, with Public Sector Banks (PSBs) contributing ₹ 10 lakh crore. India pledged to reduce emissions at the COP26 Summit in Glasgow in 2021 to achieve 500 GW of non-fossil fuel-based energy generation by 2030.

89. Correct option is (3).

Explanation: Mon – Q

Tue – R

Wed – O

Thu – N

Fri – S

Sat – P

Sun – M

Q has exam on Monday

90. Correct option is (2).

**Explanation:** The seasonal reversal of wind direction in India is predominantly affected by the monsoon pressure system. During summer, the land becomes very hot, and the sea stays cooler. Thus, the wind blows from the sea to the land, bringing the monsoon. During winter, the land becomes cooler than the sea. Consequently, the wind blows the other way, from the land to the sea.

91. Correct option is (3).

$$\text{Explanation: } 4m^2 + 6m + 2 = 0$$

$$2m^2 + 2m + m + 1 = 0$$

$$2m(m + 1) + m + 1 = 0$$

$$(m + 1)(2m + 1) = 0$$

$$m = -\frac{1}{2}, -1$$

92. Correct option is (2).

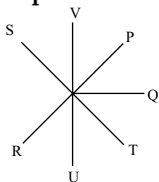
Explanation: Spending = 40%  
Saving = 60%

$$\text{Total income} = \frac{24000}{60} \times 100$$

$$= 40,000$$

93. Correct option is (1).

Explanation:



As evident, 4 people (V, S, R and U) sits between T and P when counted from the right of P

94. Correct option is (2).

Explanation: Gond painting is a traditional folk art form practised by the Pradhan Gond tribes residing in Madhya Pradesh, as well as parts of Odisha, Jharkhand, Bihar and Chhattisgarh. The pigments used for the paintings are derived from natural sources, including deep red soil (Geru), white soil, yellow (ochre) soil, cow dung, charcoal, and various plant and bean leaves. The brush, known as a koochi, is also made from tree fibres. Jangarh Singh Shyam was instrumental in bringing this art form to a wider audience.

95. Correct option is (3).

Explanation:

R	D	14
↓ +3	↓ +3	↓ +3
U	F	10
C	R	10
↓ +3	↓ +2	↓ -4
F	T	6

Similarly,

O	N	1
↓ +3	↓ +2	↓ -4
R	P	-3

96. Correct option is (3).

Explanation:

Let cost of bed =  $c$   
initial selling price =  $x$   
initial profit =  $x - c$   
Now, according to the given condition,  
 $2x - c = 11(x - c)$   
 $2x - c = 11x - 11c$   
 $10c = 9x$   
Initial profit =  $x - c$

$$= \frac{10c}{9} - c$$

$$= \frac{c}{9}$$

$$\text{profit \%} = \frac{c}{9c} \times 100$$

$$= 11\frac{1}{9}\%$$

97. Correct option is (4).

Explanation: According to the given condition,  
 $= 66 \times 8 + 231 \div 11 - 14$   
 $= 528 + 21 - 14$   
 $= 535$

98. Correct option is (4).

Explanation: According to a report by the luxury resort developer Fine Acers in 2025, the market for branded residences and resorts in India is expected to reach ₹ 8,610 crore (US \$ 1 billion) by 2027. The market is expected to grow at 11–12% in 2025–26 and 15% by 2030. The branded residences market is growing at 11% YoY.

99. Correct option is (3).

Explanation: The global multidimensional poverty index (MPI) is an international measure of acute multidimensional poverty covering over 100 developing countries. Oxford Poverty and Human Development Initiative (OPHI) and the United Nations Development Programme (UNDP) release the global MPI. The global MPI is based on the following factors:

Health (nutrition and child mortality), education (years of schooling and school attendance), and standard of living (cooking fuel, sanitation, drinking water, electricity, housing, and assets).

100. Correct option is (4).

Explanation: Marked price = 3100

Let cost =  $c$

$$\therefore 1.25c = 3100$$

$$c = \frac{3100}{1.25}$$

$$c = 2480$$

$$\text{Discount} = 3100 \times 0.12$$

$$= 372$$

$$\text{Profit} = 3100 - 2480 - 372$$

$$= 248$$

$$\text{Profit\%} = \frac{248}{2480} \times 100$$

$$= 10\%$$