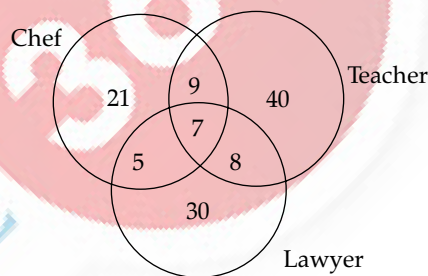


## Instructions:

- 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.

- In which year did Bakshi Jagabandhu lead the Paika Rebellion to protest against the British land revenue policy?  
(1) 1785 (2) 1717  
(3) 1806 (4) 1817
- What was the overall unemployment rate in India as reported in the 6th Annual Employment-Unemployment Survey conducted by the Labour Bureau?  
(1) 5.4% (2) 6.1%  
(3) 4.9% (4) 7.3%
- If '+' means '-', '-' means '×', '×' means '÷' and '÷' means '+', then what will come in place of the question mark (?) in the following equation?  
 $32 \div 14 + 16 - 8 \times 4 = ?$   
(1) 14 (2) 18  
(3) 16 (4) 22
- Who among the following assumed charge of the Comptroller General of India in November 2024?  
(1) K. Sanjay Murthy (2) Tuhin Kant Pandey  
(3) Manish Singhal (4) Arunish Chawla
- Which of the following is an example of an Operating System commonly used on desktop computers?  
(1) Microsoft Word (2) Adobe Photoshop  
(3) Windows 10 (4) Google Chrome
- 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 € # % £ 1 % £ 8 8 1 4 9 % 5 8 & 7 (Right)  
How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?  
(1) 2 (2) 3  
(3) 1 (4) 4
- The 24° latitude passes closest to which Indian state's capital?  
(1) Patna (2) Bhopal  
(3) Raipur (4) Dispur
- Which urban local self-government body manages small towns with limited municipal functions like street lighting and drainage?  
(1) Municipal Corporation  
(2) Port Trust  
(3) Town Area Committee  
(4) Special Purpose Agencies
- Find the value of K if the quadratic equations  $2x^2 + Kx + 8 = 0$  and  $3x^2 + 4x + 12 = 0$  have both roots common.  
(1)  $\frac{8}{3}$  (2)  $\frac{3}{2}$   
(3)  $\frac{5}{3}$  (4)  $\frac{7}{2}$
- What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $38 \div 21 + 436 \times 4 - 73 = ?$   
(1) 761 (2) 762  
(3) 764 (4) 763
- Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. No box is kept above F. Only three boxes are kept between F and B. Only one box is kept between G and D. D is kept immediately above B. Only four boxes are kept between G and C. A is kept in some place above E. How many boxes are kept below D?  
(1) 1 (2) 4 (3) 3 (4) 2
- In the Gender Inequality Index (GII) 2022, what rank did India achieve among 193 countries?  
(1) 108 (2) 115 (3) 100 (4) 122

13. Which structural-functional issue in a plant root would hinder gas exchange but not significantly impact water absorption?
- Endodermal cells without suberin.
  - Disrupted stomatal apparatus on aerial organs.
  - Absence of root hairs due to epidermal deformation.
  - Mutated epiblema cells lacking vacuoles.
14. Which of the following is an example of a chemical change?
- Burning wood
  - Cutting paper
  - Boiling water
  - Melting ice
15. When navigating through options in a dialog box or menu using the keyboard, what is the primary function of the Tab key?
- To go back to the previous option or control.
  - To close the current dialog box or menu.
  - To move the focus to the next available option or control.
  - To select the currently highlighted option.
16. The larger of two supplementary angles is  $28^\circ$  more than the smaller one. The smaller angle (in degree) is:
- $76^\circ$
  - $79^\circ$
  - $80^\circ$
  - $84^\circ$
17. What is the main focus of the Sangam anthologies, *Purananuru* and *Pathitrupathu*, from the *Ettuthogai* collection?
- Heroism and praises of kings and their deeds.
  - Love and emotional experiences.
  - Descriptions of nature and landscapes.
  - Spiritual and religious themes.
18. In South Indian temple architecture, what is the name of the stepped or pyramidal structure built above the sanctum?
- Jagati
  - Mandapa
  - Vimana
  - Adhisthana
19. The term 'Bhukti' in post-Gupta polity referred to:
- Tax
  - Officer
  - King
  - Province
20. From which state to which state do the Eastern Coastal Plains of India extend?
- Gujarat to Kerala
  - West Bengal to Tamil Nadu
  - Maharashtra to Andhra Pradesh
  - Odisha to Karnataka
21. Simplify:  $\frac{\sqrt[3]{5832}}{\sqrt[4]{10000}} \times \frac{5}{24} \times 56$
- 21
  - 13
  - 8
  - 17
22. Sundar starts from point A and drives 12 km towards the east. He then takes a left turn, drives 9 km, turns left and drives 13 km. He then takes a left turn and drives 11 km. He takes a final left 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  $90^\circ$  turns only unless specified.)
- 2 km to the south
  - 1 km to the north
  - 2 km to the north
  - 1 km to the south
23. Salil's salary was first reduced by 15% and subsequently raised by 10%. What percentage was his final salary lower compared to his initial salary?
- 10%
  - 1.5%
  - 6.5%
  - 15%
24. If 260 is the mean proportion between  $x$  and 338, what is the value of  $x$ ?
- 200
  - 198
  - 199
  - 201
25. Which of the following components is/are NOT a part of the Central Processing Unit (CPU)?
- Arithmetic Logic Unit (ALU)
  - Graphic Card
  - Control Unit (CU)
  - Registers
26. A class of 30 students appeared in a test. The average score of 12 students is 60, and that of the rest is 62. What is the average score of the class?
- 61.2
  - 62.2
  - 60.2
  - 59.2
27. Study the given Venn diagram carefully and answer the question that follows.



The numbers in different sections indicate the number of persons. How many chefs are there who are also teachers but not lawyers?

- 8
  - 9
  - 5
  - 7
28. The average of first 14 whole numbers is:
- 6.5
  - 7.5
  - 7
  - 5.5
29. 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 ::?
- # : VEC :: BNW : %
- # = XHA, % = ZKY
  - # = ZKY, % = FTS
  - # = FTS, % = XHA
  - # = DQU, % = XHA
30. Which of the following Indian states does NOT have a coastline?
- Gujarat
  - Rajasthan
  - Andhra Pradesh
  - Odisha

31. Find the surface area of a sphere whose diameter is equal to 98 cm.  
 (1) 29,256 cm<sup>2</sup> (2) 39,204 cm<sup>2</sup>  
 (3) 30,184 cm<sup>2</sup> (4) 33,284 cm<sup>2</sup>
32. Rahul's age is three times the age of his daughter. After 8 years from now, his age will be 5 years more than twice the age of his daughter. Find the present age of Rahul.  
 (1) 36 years (2) 30 years  
 (3) 33 years (4) 39 years
33. In a row of 73 students facing north, Gita is 16<sup>th</sup> from the left end. If Sunita is 21<sup>st</sup> to the right of Gita, what is Sunita's position from the right end of the line?  
 (1) 31st (2) 28th  
 (3) 22nd (4) 37th
34. In February 2025, Muthoot Finance has received RBI approval to open how many new branches across India, strengthening its presence in the gold loan market?  
 (1) 115 (2) 110  
 (3) 120 (4) 125
35. What is the primary objective of the Chandra's Surface Thermophysical Experiment (ChaSTE), 2025, payload?  
 (1) To measure the vertical temperature profile of the lunar regolith.  
 (2) To study the Moon's magnetic field.  
 (3) To measure the Moon's atmospheric pressure.  
 (4) To assess the Moon's geological composition.
36. How many cities were initially included under the Smart Cities Mission launched by the Government of India?  
 (1) 50 (2) 100  
 (3) 200 (4) 150
37. Varun and Ashish together can paint a hall in 3 days. Varun alone can paint it in 7 days. In how many days can Ashish alone paint 4 such halls?  
 (1) 5.25 (2) 6.25  
 (3) 22 (4) 21
38. If Ishwar covers 721 km in a boat in 42 hours against the stream and he takes 15 hours with the stream, then find the speed of the stream.  
 (1) 7.38 km/h (2) 19.25 km/h  
 (3) 22.48 km/h (4) 15.45 km/h
39. Who won the Women's Premiere League WPL 2025 title?  
 (1) Chennai Super Kings  
 (2) Mumbai Indians  
 (3) Royal Challengers Bangalore  
 (4) Delhi Capitals
40. The *Takht-i-Bahi* inscription refers to which Parthian ruler?  
 (1) Gondophernes  
 (2) Menander  
 (3) Azes (4) Rudradaman
41. Which Article of the Directive Principles of State Policy was added by the 97th Constitutional Amendment Act of the Constitution of India?  
 (1) Article 39A (2) Article 43B  
 (3) Article 48A (4) Article 43A
42. 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) HL-JN (2) MU-KH  
 (3) NR-PT (4) SW-UY
43. Who among the following founded the Vedanta College in Calcutta to promote both Indian and Western learning?  
 (1) Rammohan Roy  
 (2) Debendranath Tagore  
 (3) Swami Vivekananda  
 (4) Ishwar Chandra Vidyasagar
44. 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 ::?  
 # : JLH :: IKG : %  
 (1) # = FJH, % = MHU  
 (2) # = DEG, % = NIU  
 (3) # = EGC, % = NPL  
 (4) # = FDG, % = MLG
45. Which of the following combinations represents the party and constituency of the Chief Minister of Jharkhand after the 2024 Assembly elections?  
 (1) JMM, Barhait  
 (2) JMM, Khunti  
 (3) BJP, Jamshedpur East  
 (4) BJP, Dhanwar
46. Kiran spends 45% of his income. If he saves ₹66,000, then his income (in ₹) is:  
 (1) 1,21,000 (2) 1,19,000  
 (3) 29,700 (4) 1,20,000
47. In November 2024, which day was celebrated to honour India's contribution to the dairy revolution?  
 (1) National Dairy Day  
 (2) White Revolution Day  
 (3) National Milk Day  
 (4) Milk Production Day
48. A dealer sells two dryers at the rate of ₹63,000 per dryer. On one, he earns a profit of 5% and on the other he loses 30%. What is his loss percentage in the whole transaction?  
 (1) 14% (2) 17%  
 (3) 15% (4) 16%
49. The difference between the simple interest and the compound interest, compounded annually, on a certain sum of money for 2 years at 16% per

annum is ₹797. Find the sum (rounded off to the nearest integer).

- (1) ₹31,113 (2) ₹31,130  
(3) ₹31,137 (4) ₹31,133

50. If 2 is added to each even digit and 2 is added to each odd digit in the number 5217643, what will be the sum of the first digit from the left and the first digit from the right in the new number thus formed?

- (1) 10 (2) 11  
(3) 12 (4) 13

51. 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	9	2	@	&	3	7	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?

5 & 3 @ 7 % 2

- (1) © M D Z W P © (2) © M D Z P W ©  
(3) © D M Z W P © (4) © M D W Z P ©

52. The Indian Telecom sector was liberalised under which year's Telecom Policy?

- (1) 1997 (2) 1999  
(3) 1994 (4) 2002

53. What is the value of  $\frac{3}{8} + \frac{1}{8} + \frac{5}{16} + \frac{2}{8} - 2$ ?

- (1)  $-\frac{23}{16}$  (2)  $-\frac{13}{16}$   
(3)  $-\frac{15}{16}$  (4)  $-\frac{21}{16}$

54. When  $x$  is added to each of 30, 15, 21 and 11, then the numbers so obtained, in this order, are in proportion. Then, if  $6x : y :: y : (3x - 9)$ , and  $y > 0$ , what is the value of  $y$ ?

- (1) 18 (2) 24  
(3) 10 (4) 37

55. In quadrilateral  $ABCD$ ,  $AB = 17$  cm,  $BC = 8$  cm,  $CD = 9$  cm,  $AD = 12$  cm, and  $CA = 15$  cm.

What is the area (in  $\text{cm}^2$ ) of the quadrilateral?

- (1) 105 (2) 114  
(3) 118 (4) 121

56. Find the duration (in years) in which ₹1,200 will amount to ₹2,280 at a rate of 4% per annum simple interest.

- (1) 22.5 (2) 21.5  
(3) 23.5 (4) 24.5

57. The Sabarmati river originates from which of the following places?

- (1) Aravalli Hills, Rajasthan  
(2) Western Ghats, Maharashtra  
(3) Satpura Range, Gujarat  
(4) Vindhya Range, Madhya Pradesh

58. Which of the following statements is/are correct about the Digital Agriculture Mission launched in 2024?

- It includes the creation of Digital Public Infrastructure such as AgriStack and Comprehensive Soil Fertility Maps.
- AgriStack is managed solely by the Central Government.
- The mission seeks to facilitate digital services like credit and insurance to farmers through authenticated data.

- (1) Only 2 and 3 (2) 1, 2 and 3  
(3) Only 1 and 2 (4) Only 1 and 3

59. What should come in place of the question mark (?) in the given series?

701 700 697 692 685?

- (1) 675 (2) 673  
(3) 671 (4) 676

60. What is the primary purpose of virtual memory in a computer system?

- To provide backup for data.
- To increase physical storage capacity.
- To extend CACHE memory for storage.
- To extend RAM capacity by using disk space.

61. A vendor bought lemons at 7 for ₹1. How many lemons must he sell for ₹1 to gain 75%?

- (1) 8 (2) 4  
(3) 5 (4) 6

62. Which of the following solutions is slightly acidic due to hydrolysis?

- (1)  $\text{NH}_4\text{CH}_3\text{COO}$  (2)  $\text{NH}_4\text{Cl}$   
(3)  $\text{Na}_2\text{CO}_3$  (4)  $\text{CH}_3\text{COONa}$

63. Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

OKI 4, QLG 8, SME 12, UNC 16, ?

- (1) WOA 24 (2) WOA 20  
(3) WOV 20 (4) VOW 16

64. The larger of two supplementary angles is  $50^\circ$  more than the smaller one. The smaller angle (in degree) is:

- (1)  $65^\circ$  (2)  $67^\circ$   
(3)  $56^\circ$  (4)  $75^\circ$

65. 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 ::?

# : LHM :: OKP : %

- (1) # = FDH, % = NHU



(2) # = UPS, % = RPV

(3) # = DCV, % = NHY

(4) # = GCH, % = TPU

66. If  $7.5 : 19.5 :: 16 : x$ , find the value of  $x$ .

(1) 39.4 (2) 41.1

(3) 41.6 (4) 45.1

67. According to the Economic Survey 2024–25, what is the current expenditure on Research and Development (R&D) as a percentage of India's GDP?

(1) 0.45% (2) 1.15%

(3) 0.64% (4) 1.28%

68. Seven people, N, O, P, Q, R, S and T, are sitting in a straight line facing north. T is sitting at one of the ends of the line. Only two people are sitting to the left of R. P is sitting to the immediate right of R and immediate left of S. Q is sitting to the immediate left of O. Q does not sit at an extreme end of the line. How many people are sitting between O and N?

(1) Two (2) Zero

(3) Four (4) One

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

$$1125 \times 45 \div 39 - 17 + 19 = ?$$

(1) 992 (2) 973

(3) 379 (4) 975

70. This question is based on the five 3-digit numbers given below.

(Left) 614 457 249 625 150 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)

(NOTE: All operations to be done from left to right.)

What will be the resultant if the second digit of the highest number is subtracted from the second digit of the lowest number?

(1) 4 (2) 3

(3) 6 (4) 2

71. A group of numbers and symbols is coded using letter codes as per the codes given below and the conditions that follow. Study the given codes and conditions and answer the question that follows.

(Note: If none of the conditions apply, then codes for the respective number/symbol are to be followed directly as given in the table.)

Number/ Symbol	2	@	9	5	\$	&	3	%	#	7	+	4	8	6
Code	T	F	A	J	L	E	W	Q	D	P	R	B	U	S

**Conditions:**

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.

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

If both 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?

7 2 4 @ 5

(1) PBBFJ

(2) JTBFP

(3) JBBFP

(4) PTBFJ

72. 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.

A lives on a floor which is a prime number. The product of floors on which A and E live is 3. Only 2 people live above B. F lives immediately below C. How many people live between D and F?

(1) Three

(2) Four

(3) One

(4) Two

73. This question is based on the five 3-digit numbers given below.

(Left) 401 418 733 283 902 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)

(NOTE: All operations to be done from left to right.)

What will be the resultant if the second digit of the highest number is added to the third digit of the lowest number?

(1) 3

(2) 6

(3) 4

(4) 2

74. How many countries were evaluated in the Climate Change Performance Index 2025?

(1) 73

(2) 83

(3) 93

(4) 63

75. Fardeen starts from point A and drives 13 km towards west. He then takes a left turn, drives 7 km, turns right and drives 6 km. He then takes a left turn and drives 8 km. He takes a final left turn, drives 19 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° turns only unless specified)?

(1) 10 km north

(2) 15 km south

(3) 12 km south

(4) 15 km north

76. The simplified value of  $127 - 7 \times (17 + 6) + 93$  is:

(1) 59

(2) 57

(3) 62

(4) 51

77. Pipe A can fill a tank in 18 min, while pipe B can empty the completely filled tank in 20 min. Initially, pipe A is opened and after 6 minutes pipe B is also opened. In how much time (in min) will the remaining tank be filled completely?

(1) 120

(2) 137

(3) 107

(4) 127

78. As of April 2025, what percentage of the India–UK Free Trade Agreement (FTA) has been finalised, bringing both the nations closer to concluding the deal?

(1) 90%

(2) 80%

(3) 70%

(4) 95%

79. Simplify  $(2x - 5y)^2 + (5x + 2y)^2 + (2x + 5y)(2x - 5y)$ .  
 (1)  $34x^2 - 4y^2$   
 (2)  $-34x^2 + 4y^2$   
 (3)  $-33x^2 - 4y^2$   
 (4)  $33x^2 + 4y^2$
80. Which of the following countries assumed the Chairmanship of the Bay of Bengal Inter-Governmental Organisation (BOBP-IGO) in 2025?  
 (1) India (2) Myanmar  
 (3) Sri Lanka (4) Bangladesh
81. The Supreme Court can issue writs under Article 32 only for which specific purpose?  
 (1) To resolve disputes between states.  
 (2) To enforce the Directive Principles of State Policy.  
 (3) To protect Fundamental Rights.  
 (4) To review decisions of statutory tribunals.
82. What is the key difference between the Supreme Court's original jurisdiction in federal disputes versus its writ jurisdiction?  
 (1) Federal dispute jurisdiction can be exercised *suo moto*, while writ jurisdiction requires a petition.  
 (2) Federal dispute jurisdiction applies to civil matters, while writ jurisdiction applies to criminal matters.  
 (3) Federal dispute jurisdiction is exclusive to SC, while writ jurisdiction is concurrent with High Courts.  
 (4) Federal dispute jurisdiction is advisory, while writ jurisdiction is binding.
83. Select the number from among the given options that can replace the question mark (?) in the following series. 105 97 89 81 73 ?  
 (1) 65 (2) 58  
 (3) 60 (4) 70
84. If the ratio of two numbers is 5 : 3 and the product of their LCM and their HCF is 135, then the sum of the reciprocals of the LCM and the HCF is:  
 (1)  $\frac{16}{45}$  (2)  $\frac{16}{85}$   
 (3)  $\frac{16}{61}$  (4)  $\frac{16}{73}$
85. Which country became the first in Latin America to exit China's Belt and Road Initiative in 2025?  
 (1) Chile (2) Argentina  
 (3) Colombia (4) Panama
86. A ladder leaning against a wall makes an angle  $\theta$  with the horizontal ground such that  $\tan \theta = \frac{15}{8}$ .  
 If the height of the top of the ladder from the wall is 30 m, find the distance (in m) of the foot of the ladder from the wall.  
 (1) 18 (2) 16  
 (3) 14 (4) 20
87. P, Q, R, S, T, U and V are sitting around a circular table facing the centre. Only two people sit between T and S when counted from the right of T. Only three people sit between V and Q when counted from the right of Q. S sits to the immediate right of Q. U sits to the immediate right of R. How many people sit between Q and U when counted from the right of Q?  
 (1) 1 (2) 3  
 (3) 4 (4) 2
88. A man has to cover a distance of 519 km in 7 h. If he covers two-third of this distance in  $\frac{5}{7}$  of the time, then what should his speed (in km/h) be to cover the remaining distance in the time left?  
 (1) 86.5 (2) 46.5  
 (3) 66.5 (4) 34.5
89. 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) Father's sister (2) Mother's mother  
 (3) Father's mother (4) Mother's sister
90. What should come in place of the question mark (?) in the given series based on the English alphabetical order?  
 XBF UYC RVZ OSW ?  
 (1) TPL (2) TLP  
 (3) LTP (4) LPT
91. Which type of Subordinate Court primarily handles disputes related to property ownership and contractual agreements?  
 (1) Civil Courts (2) Criminal Courts  
 (3) Revenue Courts (4) Family Courts
92. FARM is related to CXOJ in a certain way based on the English alphabetical order. In the same way, FRESH is related to COBPE. To which of the given options is RICH related, following the same logic?  
 (1) OEZF (2) OFZE  
 (3) OFZF (4) OEZE
93. What is the purpose of the Slide Master in MS PowerPoint?  
 (1) To apply consistent formatting, fonts and layouts to all slides.  
 (2) To export slides as images.  
 (3) To delete multiple slides at once.  
 (4) To insert animations and transitions.
94. The median of the observations 76, 83, 30, 11, 81, 52, 18, 34, 84, 35 and 27 is:  
 (1) 30 (2) 35 (3) 52 (4) 34
95. The mode and median of a data set is 28.4 and 88, respectively. What is the mean of the data set? (Use empirical formula.)  
 (1) 114.2 (2) 119.2  
 (3) 117.8 (4) 127.7
96. The market price of a bed is ₹517, which is 30% above the cost price. If the profit percent is 2%.

Find the discount percentage. (Rounded off to two decimal places.)

- (1) 18.57% (2) 24.06%  
(3) 20.36% (4) 21.54%

97. 67 is related to 74 following a certain logic. Following the same logic, 13 is related to 20.

To which of the following is 52 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into 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) 63 (2) 57  
(3) 59 (4) 61

98. 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	8	9	@	&	5	7	2	%	1	3	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?

7 2 @ 1 3 &

- (1) WAZRTM  
(2) WARZTM  
(3) MAZTRW  
(4) MAZRTW

99. Who among the following was known for promoting inter-caste and inter-religious marriages through legislation?

- (1) Annie Besant  
(2) Pandita Ramabai  
(3) Raja Ram Mohan Roy  
(4) Sir Syed Ahmed Khan

100. 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) POR  
(2) SQU  
(3) LJN  
(4) ECG

□□

## ANSWER KEY

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

## SOLVED PAPER—03

### HINTS AND SOLUTIONS (5th June 2025 Shift 01)

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

**Explanation:** Bakshi Jagabandhu led the Paika rebellion to protest against the British land revenue policy in 1817 in Odisha. The Paika rebellion is also known as the Paika Bidroha. Bakshi was the military chief of King Mukund Dev II. The British introduced new land revenue policies, which led to an increase in taxes to be paid. Also, some peasants lost their lands. This caused widespread discontent among the Paikas (traditional landed militia) and the common people, leading to Paika rebellion. In 2017, the Odisha state cabinet had passed a proposal to formally urge the centre to declare the Paika rebellion as the first war of independence.

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

**Explanation:** According to the 6th Annual Employment-Unemployment survey conducted by the Labour Bureau, the overall unemployment rate in India was reported as 5.4%. The survey was conducted during August 2016 to March 2017 in all the 36 States/UTs by covering all the districts in the country. The report was prepared on the basis of labour force participation rate, worker population rate, and unemployment rate.

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

**Explanation:** According to the given condition,  
 $= 32 + 14 - 16 \times 2$  (using BODMAS rule)  
 $= 32 + 14 - 32$   
 $= 14$

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

**Explanation:** Kundu Sanjay Murthy assumed charge as the Comptroller and Auditor General (CAG) of India in November 2024. The CAG is responsible for conducting audits of the receipts and expenditures of the central and state governments. It is India's Supreme Audit Institution established under Article 148 of the Indian Constitution. CAG heads the Indian Audit and Accounts Department (IA-AD). The President of India appoints the CAG.

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

**Explanation:** Windows 10 is an example of an Operating System (OS) used on desktop computers. An OS is a software that manages all the resources, including hardware and software in the computer. It coordinates the functioning of a computer. It is pre-loaded in computers, laptops and desktops. Some of the other examples of OS are macOS and Linux.

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

**Explanation:** £ 1%

Only one number '1' is following the given condition.

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

**Explanation:** The 24° latitude passes closest to Bhopal, Madhya Pradesh's capital. Bhopal is situated at 23.2599°N Latitude and 77.4126°E Longitude.

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

**Explanation:** The Town Area Committee manages small towns with limited municipal functions like street lighting and drainage. It is an urban local self-government body. Municipal corporations manage large cities. Port trusts manage port areas. Special-purpose agencies are created for specific functions or projects.

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

**Explanation:**  $2x^2 + Kx + 8 = 0$   
 $3x^2 + 4x + 12 = 0$

Both roots common,

$$\therefore \frac{2}{3} = \frac{K}{4} = \frac{8}{12}$$
$$K = \frac{8}{3}$$

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

**Explanation:** According to the given conditions,  
 $38 \times 21 - 436 \div 4 + 73$   
Using BODMAS rule:  
 $38 \times 21 - 109 + 73$   
 $= 798 - 109 + 73$   
 $= 871 - 109$   
 $= 762$

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

**Explanation:** According to the given conditions, the possible arrangement is shown below:

7 F  
6 G  
5 A  
4 D  
3 B  
2 E  
1 C

Three boxes are kept below D.

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

**Explanation:** India was ranked 108th out of 193 countries with a score of 0.437. The United Nations Development Programme (UNDP) releases the Human Development Report. In 2021, India stood at rank 122 out of 191 countries with a score of 0.490. The range of GII score lies between 0 (equality) to 1 (extreme inequality). A low GII value indicates low inequality between women and men, and vice versa.



13. Correct option is (2).

**Explanation:** Stomata are the holes or tiny pores on the surface of leaves, stems, and other aerial organs. These holes help in the exchange of gases between the plant and the atmosphere. Thus, the disrupted stomatal apparatus on aerial organs will not have an impact on the water absorption ability of the plant. The water absorption in a plant is primarily done via roots and its hairs.

14. Correct option is (1).

**Explanation:** A chemical change results in the formation of new substances with different chemical properties. Of the given options, burning wood is an example of chemical change. The wood undergoes a chemical reaction with oxygen to produce ash, water vapour, and carbon dioxide.

15. Correct option is (3).

**Explanation:** When navigating through options in a dialogue box or menu using the keyboard, the Tab key moves the focus to the next available option or control.

16. Correct option is (1).

**Explanation:** Let angles be  $A$  and  $B$ .

So, sum of supplementary angles  $A + B = 180$

Given that,  $A = B + 28^\circ$

After putting the value of  $A$  in above equation,

$$B + B + 28^\circ = 180^\circ$$

$$2B = 180^\circ - 28^\circ$$

$$2B = 152^\circ$$

$$B = 76^\circ$$

17. Correct option is (1).

**Explanation:** The main focus of the sangam anthologies, *Pathirruppathu*, and *Patirrupattu*, from the *Ettuthokai* collection is Heroism and praises of kings and their deeds. Sangam literature is the Tamil literature written during the sangam era. The literature is also known as 'the poetry of the noble ones.' *Purananuru* comprises 400 poems predominantly on the themes of war and military achievements, while *Pathirruppathu* talks about the heroic deeds and triumphs of kings and warriors. The sangam literature comprises eighteen greater texts (*Pathinenmelknakku*), along with the Tamil grammar work *Tholkappiyam*. *Ettuthokai* are known as the eight collections, and they are a part of *Pathinenmelknakku*.

18. Correct option is (3).

**Explanation:** In South Indian temple architectures, **Vimana** is the stepped or pyramidal structure built above the sanctum. **Jagati** is the raised platform on which the temples are built and is used by the devotees for circumambulation (*pradakshina*). **Mandapa** is a pillared hall often located in front of the sanctum. It is used for rituals and ceremonial purposes. **Adhisthana** is the base or plinth of the temple.

19. Correct option is (4).

**Explanation:** The term 'Bhukti' in post-Gupta polity referred to a province. It was an administrative unit for managing vast territories, demonstrating a hierarchical and organised governance structure.

20. Correct option is (2).

**Explanation:** The eastern Coastal Plains extend from West Bengal to Tamil Nadu. They cover a length of approximately 1500 km and have a width of about 100 km. These lie between the deccan plateau and the bay of Bengal. They can be divided into three regions—Tamil Nadu Plains in the south, Andhra Plains in the centre, and Utkal Plains in the north. The plains are fertile as they form the deltas of peninsular rivers such as Kaveri, Mahanadi, Krishna, and Godavari.

21. Correct option is (1).

**Explanation:**

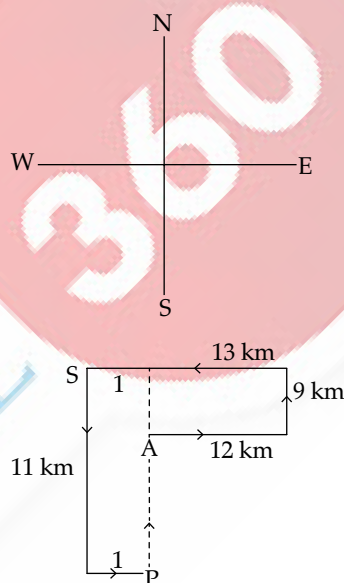
$$\frac{\sqrt[3]{5832}}{\sqrt[4]{10000}} \times \frac{5}{24} \times 56$$

$$= \frac{18}{10} \times \frac{5}{24} \times 78 = 9 \times \frac{56}{24}$$

$$= 9 \times \frac{14}{6} = \frac{126}{6} = 21$$

22. Correct option is (3).

**Explanation:**



He should drive 2 km north to reach point A again.

$$AP = 11 - 9$$

$$= 2 \text{ km}$$

23. Correct option is (3).

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

$$\text{Reduced by } 15\% = 0.85x$$

$$\text{Raised by } 10\% = 0.85x \times 1.1$$

$$= 0.935x$$

$$\text{Difference} = x - 0.935x = 0.065x$$

$$\% \text{ change} = \frac{0.065x}{x} \times 100$$

$$= 6.5\%$$

24. Correct option is (1).

**Explanation:**

$$\text{Mean proportion} = \sqrt{x \times 338}$$

$$260 = \sqrt{338x}$$

$$x = 200$$

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

**Explanation:** A graphics card is not a part of the CPU. The graphics card is also known as the Graphics Processing Unit (GPU). GPU renders images, videos, and animations. It is found on the motherboard as an expansion card or integrated into the motherboard or CPU as an integrated GPU, but is not a core component of CPU. The CPU is also known as the brain of the computer.

It has the following components: Control Unit (CU), Registers and Arithmetic Logical Unit (ALU).

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

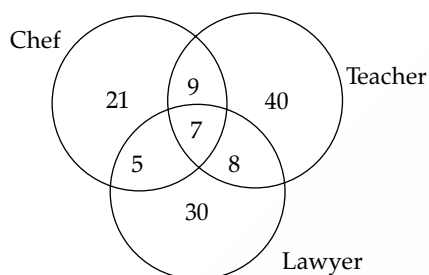
**Explanation:** Total score of 12 students =  $12 \times 60$

Total score of 18 students =  $18 \times 62$

$$\begin{aligned} \text{Average of class} &= \frac{12 \times 60 + 18 \times 62}{30} \\ &= \frac{720 + 1116}{30} = \frac{1836}{30} \\ &= 61.2 \end{aligned}$$

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

**Explanation:**



According to Venn diagram, 9 of them are chefs who are teachers as well.

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

**Explanation:**

$$\text{Average} = \frac{0 + 1 + 2 + \dots + 13}{14}$$

$$\begin{aligned} \text{Using, sum of } n \text{ natural numbers} &= \frac{n(n+1)}{2} \\ &= \frac{13 \times 14}{2 \times 14} \\ &= 6.5 \end{aligned}$$

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

**Explanation:**

X	H	A
↓ -2	↓ -3	↓ +2
V	E	C

Similarly,

B	N	W
↓ -2	↓ -3	↓ +2
Z	K	Y

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

**Explanation:** Of the given options, Rajasthan doesn't have a coastline. Gujarat has the longest coastline among the mainland states of India with an approximate length of 2340.62 km. Andhra Pradesh has a coastline of 1053.07 km, and Odisha has a 574.71 km coastline. In 2025, India's coastline was recalculated and is now 11098.81 km, a significant increase from the previously accepted 7,516.60 km. The coastline has increased by approximately 50%, and this is not due to territorial expansion but because of variation in scale and calculation methods.

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

**Explanation:**

$$\begin{aligned} 2r &= 98 \\ r &= 49 \text{ cm} \\ \text{Surface area} &= 4\pi r^2 \\ &= 4 \times \frac{22}{7} \times 49^2 \\ &= 30,184 \text{ cm}^2 \end{aligned}$$

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

**Explanation:**

Let age of Rahul =  $R$   
Age of his daughter =  $d$

$$R = 3d \quad \dots(1)$$

$$R + 8 = 2(d + 8) + 5$$

$$R = 2d + 13 \quad \dots(2)$$

After putting the value of  $d$  from equation (1),

$$\begin{aligned} R &= \frac{2R}{3} + 13 \\ R - \frac{2R}{3} &= 13 \\ R &= 39 \end{aligned}$$

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

**Explanation:**

Sunita from left end =  $16 + 21 = 37\text{th}$   
Sunita from right end =  $73 + 1 - 37$   
 $= 74 - 37 = 37\text{th}$

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

**Explanation:** In February 2025, Muthoot Finance received approval from the Reserve Bank of India (RBI) to open 115 new branches. This will strengthen Muthoot Finance's leadership in the gold loan sector and expand its customer reach. Muthoot Finance is headquartered in Kochi, Kerala, and the Managing Director is George Alexander Muthoot. It is India's largest gold loan-focused Non-Banking Financial Company (NBFC).

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

**Explanation:** The Chandra's Surface Thermophysical Experiment (ChaSTE) measures the temperature profile of the lunar topsoil around the pole to understand the thermal behaviour of the moon's surface. It has a temperature probe equipped with a controlled penetration mechanism that can reach a depth of 10 cm beneath the surface. The Space Physics Laboratory (SPL), Vikram Sarabhai Space Centre (VSSC) in collaboration with

Physical Research Laboratory (PRL), Ahmedabad, developed CHaSTE.

CHaSTE was a payload of the Vikram lander of the Chandrayaan-3 Mission, which is India's third lunar mission. Indian Space Research Organisation (ISRO) launched this mission and Chandrayaan-3 was successful in making a soft landing on the south pole of the Moon.

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

**Explanation:** Initially, 100 cities were included under the Smart Cities Mission (SCM). The SCM was launched on 25 June 2015, to improve the quality of life in 100 cities by providing efficient services, robust infrastructure, and sustainable solutions. The mission addressed diverse needs such as housing, transport, education, healthcare, and recreation, to create adaptable urban spaces that serve as models for other cities. As of 9 May 2025, a total of 7,555 projects—94% of the total 8,067 projects—has been completed, amounting to ₹1,51,361 crores.

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

**Explanation:** Let Ashish can paint hall  $x$  days.

$$\begin{aligned}\frac{1}{7} + \frac{1}{x} &= \frac{1}{3} \\ \frac{1}{x} &= \frac{1}{3} - \frac{1}{7} \\ \frac{1}{x} &= \frac{4}{21} \\ 4x &= 21\end{aligned}$$

So, Varun can paint 4 such halls in 21 days.

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

**Explanation:**

Let speed of the stream =  $u$

Speed of boat =  $V$

$$(V - u) \times 42 = 721$$

$$(V + u) \times 15 = 721$$

$$V - u = \frac{721}{42} \quad \dots (1)$$

$$V + u = \frac{721}{15} \quad \dots (2)$$

So, by adding equations (1) and (2),

$$\therefore 2u = \frac{721}{15} - \frac{721}{42}$$

$$2u = \frac{721(42 - 15)}{42 \times 15}$$

$$u = \frac{721 \times 27}{42 \times 30}$$

$$u = 15.45 \text{ km/h}$$

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

**Explanation:** Mumbai Indians (MI) won the Women's Premier League WPL 2025 title by defeating Delhi Capitals (DC) by eight runs in the final match. With this win, MI became the

first team to win two WPL titles. Amelia Kerr of New Zealand won the purple cap for taking most wickets in the tournament. Nat Sciver-Brunt of England won both the Most Valuable Player (MVP) and Orange Cap awards, with 523 (maximum) runs in the tournament.

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

**Explanation:** The *Takht-i-Bahi* inscription refers to Gondophares, a Parthian ruler. He was the founder of the Indo-Parthian Kingdom. The inscriptions provide an insight into the different aspects of his reign. *Takht-i-Bahi* is a Buddhist monastery in Mardan, Khyber Pakhtunkhwa, Pakistan and was declared a UNESCO World Heritage site in 1980.

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

**Explanation:** The 97<sup>th</sup> Constitutional Amendment Act of the Constitution of India introduced Article 43B to the new Directive Principles of State Policy (DPSP). This amendment was done in 2011 and focused on the promotion of cooperative societies, granting them constitutional status and protection. DPSPs are guidelines for the government and are not legally enforceable.

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

**Explanation:**

H	L	M	U
↓ +2	↓ +2	↓ -2	↓ -13
J	N	K	H
N	R	S	W
↓ +2	↓ +2	↓ +2	↓ +2
P	T	U	Y

So, all the options having pairs with a difference of 2 except option (2).

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

**Explanation:** Raja Ram Mohan Roy founded the Vedanta College in 1825 in Calcutta. The purpose was to blend Indian traditional knowledge (especially Vedanta philosophy) with modern Western education like science, logic, and philosophy.

He was a key reformer of the Bengal Renaissance and believed in modern, rational thinking alongside spiritual learning.

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

**Explanation:**

E	G	C
↓ +5	↓ +5	↓ +5
J	L	H
Similarly,		
I	K	G
↓ +5	↓ +5	↓ +5
N	P	L

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

**Explanation:** Hemant Soren from the Jharkhand Mukti Morcha (JMM) was sworn in as the 13th Chief Minister of Jharkhand. Governor C.P. Radhakrishnan administered the oath of office and secrecy to him.

He previously held the office from 2019 to 2024 and from 2013 to 2014. He represented the Barhait constituency in the Jharkhand Legislative Assembly.

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

**Explanation:**

$$\text{Kiran's spend} = 45\%$$

$$\therefore \text{Saving} = 55\%$$

$$\begin{aligned} \text{Total income} &= \frac{66000}{55} \times 100 \\ &= ₹ 1,20,000 \end{aligned}$$

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

**Explanation:** India celebrates its National Milk Day on November 26 every year. This day commemorates the birth anniversary of Dr. Verghese Kurien, who is known as the 'Father of the White Revolution' in India. Dr. Kurien was born on 26 November 1921, in Kozhikode, Kerala. He was instrumental in transforming India from a milk-deficient nation into the world's largest producer of milk. Globally, India ranks first in milk production, with 230.58 million tonnes per annum, accounting for 25% of the world's total milk production, followed by the USA.

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

**Explanation:** Let cost of dryers are  $a, b$ .

$$a \times (1.05) = 63000$$

$$b \times (0.7) = 63000$$

$$a = 60000$$

$$b = 90000$$

$$\begin{aligned} \text{Total loss} &= 90000 + 60000 - 2 \times 63000 \\ &= 24000 \end{aligned}$$

$$\begin{aligned} \text{Loss percentage} &= \frac{24000}{150000} \times 100 \\ &= 16\% \end{aligned}$$

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

**Explanation:** Let sum =  $x$

$$\begin{aligned} \text{Simple interest} &= \frac{x \times 2 \times 16}{100} \\ &= 0.32x \end{aligned}$$

$$\text{Compound interest} = x \left( 1 + \frac{16}{100} \right)^2 - x$$

$$\therefore x(1.16)^2 - x - 0.32x = 797$$

$$1.3456x - 1.32 = 797$$

$$x = ₹ 31,133$$

**Shortcut:** Difference between CI and SI in two

$$\text{years} = P \left( \frac{r}{100} \right)^2$$

$$\Rightarrow 797 = P \left( \frac{16}{100} \right)^2$$

$$\Rightarrow P = 31133$$

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

**Explanation:**

$$\begin{array}{ccccccc} 5 & 2 & 1 & 7 & 6 & 4 & 3 \\ \downarrow +2 & \downarrow +2 & \downarrow +2 & \downarrow +2 & \downarrow +2 & \downarrow +2 & \downarrow +2 \\ 7 & 4 & 3 & 9 & 8 & 6 & 5 \end{array}$$

$$\begin{aligned} \text{Required sum} &= 7 + 5 \\ &= 12 \end{aligned}$$

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

**Explanation:** Code for

$$\begin{array}{ccccccc} 5 & \& 3 & @ & 7 & \% & 2 \\ \textcircled{C} & M & D & Z & W & P & \textcircled{C} \end{array}$$

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

**Explanation:** India's Telecom sector was liberalised under the National Telecom Policy, 1994. The policy opened the doors for private sector players in India's Telecom sector. Also, it laid the groundwork for the establishment of the Telecom Regulatory Authority of India (TRAI) in 1997. The 1994 policy played an important role in fostering rapid growth and innovation in the Telecom sector of India. It ensured the services became affordable and accessible.

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

**Explanation:**

$$\begin{aligned} &\frac{3}{8} + \frac{1}{8} + \frac{5}{16} + \frac{2}{8} - 2 \\ &= \frac{6}{8} + \frac{5}{16} - 2 \\ &= \frac{12 + 5 - 32}{16} = \frac{-15}{16} \end{aligned}$$

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

**Explanation:**

$$30, 15, 21, 11$$

$$30 + x, 15 + x, 21 + x, 11 + x$$

$$\therefore \frac{30 + x}{15 + x} = \frac{21 + x}{11 + x}$$

$$\frac{30 + x}{15 + x} - 1 = \frac{21 + x}{11 + x} - 1$$

$$\frac{15}{15 + x} = \frac{10}{11 + x}$$

$$33 + 3x = 30 + 2x$$

$$x = -3$$

$$\frac{6x}{y} = \frac{y}{3x - 9}$$

$$y^2 = 6x(3x - 9)$$

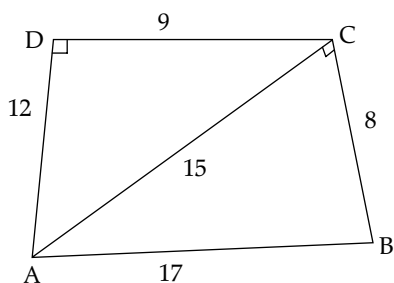
$$y^2 = -18(-18)$$

$$y = 18$$



55. Correct option is (2).

Explanation:



$AD \perp CD$  and

$AC \perp BC$

$$\begin{aligned} \therefore \text{Area} &= \frac{12 \times 9}{2} + \frac{8 \times 15}{2} \\ &= 54 + 60 \\ &= 114 \end{aligned}$$

56. Correct option is (1).

Explanation:

$$\begin{aligned} \text{Simple interest} &= 2280 - 1200 \\ &= 1080 \end{aligned}$$

$$1080 = \frac{1200 \times 4 \times n}{100}$$

$$n = \frac{1080}{12 \times 4}$$

$$n = \frac{90}{4}$$

$$n = 22.5$$

57. Correct option is (1).

**Explanation:** The Sabarmati river originates from the Aravalli hills, Udaipur, Rajasthan, and is a west-flowing river. It flows Rajasthan and Gujarat to ultimately join the Gulf of Khambhat, Arabian Sea. The total length of the river is 371 km.

58. Correct option is (4).

**Explanation:** The Government approved the Digital Agriculture Mission in 2024 with an outlay of ₹2817 crores.

The Mission is designed as an umbrella scheme to support various digital agriculture initiatives. These include creating Digital Public Infrastructure (DPI), implementing the Digital General Crop Estimation Survey (DGCEs), and supporting IT initiatives by the Central Government, State Governments, and Academic and Research Institutions. AgriStack project is one of the major components of this Mission, which consists of three foundational registries or databases in the agriculture sector, i.e., the Farmers' Registry, Geo-referenced village maps and the Crop Sown Registry. The State Governments/Union Territories will create and maintain the registries.

59. Correct option is (4).

Explanation:

$$\begin{array}{cccccc} 701 & 700 & 697 & 692 & 685 & 676 \\ -1 & -3 & -5 & -7 & -9 & \end{array}$$

60. Correct option is (4).

**Explanation:** The primary purpose of virtual memory is to extend Random Access Memory (RAM) capacity by using disk space. When the physical RAM is fully utilised, the operating system can temporarily move data from the RAM to a designated area on the hard disk, known as swap space or a paging file. This process allows the system to load larger programs or run multiple programs concurrently, giving each application the impression that it has more memory available than the actual physical RAM installed. This optimises the memory usage, improves system performance, and enables more complex computing tasks without requiring the purchase of additional physical RAM.

61. Correct option is (2).

Explanation:

$$\begin{aligned} 75\% \text{ profit} &= 1 \times 0.75 \\ &= 0.75 \end{aligned}$$

7 lemons sold at 1.75.

For ₹1 each, he has to sell  $n$  lemons.

□

$$\begin{aligned} n &= \frac{700}{175} \\ n &= 4 \end{aligned}$$

62. Correct option is (2).

**Explanation:** Of the given options, ammonium chloride ( $\text{NH}_4\text{Cl}$ ) is slightly acidic due to hydrolysis. Hydrolysis is a chemical reaction in which water is used to break down a compound. The pH of a solution formed by dissolving a salt in water depends on the strength of the acid and base from which the salt is derived. Ammonium chloride is a salt formed from a strong acid (hydrochloric acid,  $\text{HCl}$ ) and a weak base (ammonium hydroxide,  $\text{NH}_4\text{OH}$ ). When  $\text{NH}_4\text{Cl}$  dissolves in water, the ammonium ions ( $\text{NH}_4^+$ ) hydrolyse, reacting with water to produce hydronium ions ( $\text{H}_3\text{O}^+$ ) and ammonia ( $\text{NH}_3$ ). The increase in hydronium ion concentration makes the solution acidic.

63. Correct option is (2).

Explanation:

$$\begin{array}{ccccccccc} \text{O} & +2 & \text{Q} & +2 & \text{S} & +2 & \text{U} & +2 & \text{W} \\ \text{K} & +1 & \text{L} & +1 & \text{M} & +1 & \text{N} & +1 & \text{O} \\ \text{I} & -2 & \text{L} & -2 & \text{E} & -2 & \text{C} & -2 & \text{A} \\ 4 & +4 & 8 & +4 & 12 & +4 & 16 & +4 & 20 \end{array}$$

64. Correct option is (1).

**Explanation:** Let the angles be  $a, b$ .

$$a = b + 50^\circ$$

$$a + b = 180^\circ$$

From above two equations,

$$b + b + 50^\circ = 180^\circ$$

$$b = \frac{130^\circ}{2}$$

□

$$b = 65^\circ$$

65. Correct option is (3).

**Explanation:**

G            C            H  
↓ +5    ↓ +5    ↓ +5  
L            H            M

Similarly,

O            K            P  
↓ +5    ↓ +5    ↓ +5  
T            P            U

66. Correct option is (3).

**Explanation:** According to the question:

$$\frac{7.5}{19.5} = \frac{16}{x}$$

$$\Rightarrow 7.5 \times x = 19.5 \times 16$$

$$\Rightarrow x = 41.6$$

67. Correct option is (3).

**Explanation:** According to the Economic Survey 2024-25, India's R&D spending was at 0.64% of its GDP (Gross Domestic Product). 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 Advisor of India. The Finance Minister presents it in the parliament one day before the union budget.

68. Correct option is (3).

**Explanation:** According to the given statements, possible arrangement is as follows,

T        N        R        P        S        Q        O

Four persons (R, P, S, Q) are sitting between O and N.

69. Correct option is (2).

**Explanation:** According to given condition and using BODMAS rule,

$$1125 \div 45 \times 39 + 17 - 19$$

$$= 25 \times 39 - 2$$

$$= 975 - 2 = 973$$

70. Correct option is (2).

**Explanation:** Largest number = 625

Lowest number = 150

$\therefore$  Required value =  $5 - 2 = 3$

71. Correct option is (4).

**Explanation:** Following the conditions

7    2    4    @    5  
P    T    B    F    J

72. Correct option is (4).

**Explanation:** According to the given statements, possible arrangement,

6 C  
5 F  
4 B  
3 A  
2 D  
1 E

A and B lives between D and F.

73. Correct option is (1).

**Explanation:** Highest number = 902

Lowest number = 283

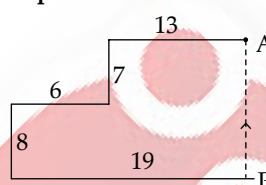
Resultant =  $3 + 0 = 3$

74. Correct option is (4).

**Explanation:** The Climate Change Performance Index (CCPI) evaluates 63 countries and the European Union. It uses a standardised framework to compare the climate performance of these countries and EU, which together account for over 90% of global greenhouse gas emissions. Germanwatch, New Climate Institute, and Climate Action Network International jointly publish this index.

75. Correct option is (4).

**Explanation:**



Required distance AP =  $8 + 7 = 15$  km north.

76. Correct option is (1).

**Explanation:**  $127 - 7(17 + 6) + 93$

$$= 220 - 161$$

$$= 59$$

77. Correct option is (1).

**Explanation:** Pipe A fill  $\frac{1}{18}$  part in 1 min.

Pipe B empty  $\frac{1}{20}$  part in 1 min.

Let it take  $n$  min to fill

$$n \times \left( \frac{1}{18} - \frac{1}{20} \right) = 1 - \frac{6}{18}$$

$$n \times \left( \frac{20 - 18}{18 \times 20} \right) = \frac{18 - 6}{18}$$

$$n \times \left( \frac{2}{20} \right) = 12$$

$$n = 120 \text{ min.}$$

78. Correct option is (1).

**Explanation:** As of April 2025, 90% of the India-UK Free Trade Agreement (FTA) was finalised. However, as of May 2025, India's Prime Minister Narendra Modi and UK Prime Minister Keir Starmer formally announced the successful conclusion of the India-UK FTA, marking a major milestone in their bilateral trade relationship. The new trade agreement is projected to boost annual bilateral trade between India and the UK by £25.5 billion.

79. The correct option is (4).

**Explanation:**

$$(2x - 5y)^2 + (5x + 2y)^2 + (2x + 5y)(2x - 5y).$$

$$= 4x^2 + 25y^2 - 20xy + 25x^2 + 4y^2 + 20xy + 4x^2 - 25y^2$$

$$= 33x^2 + 4y^2$$

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

**Explanation:** India assumed the Chairmanship of the Bay of Bengal Inter-Governmental Organisation (BOBP-IGO) from Bangladesh in 2025. This will be an endeavour of the Department of Fisheries under the Ministry of Fisheries, Animal Husbandry and Dairying. India will ensure that, through collaborative efforts, significant progress is made in the development of small-scale fisheries (SSF) in the region.

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

**Explanation:** The Supreme Court can issue writs under Article 32 to protect Fundamental Rights. Dr. B.R. Ambedkar referred to Article 32 as the 'heart and soul of the Constitution' because it provides a direct remedy for citizens to approach the Supreme Court when their fundamental rights are violated. This article makes the Supreme Court the ultimate guardian of fundamental rights.

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

**Explanation:** The Supreme Court's federal dispute jurisdiction is exclusive to the Supreme Court, while its writ jurisdiction is concurrent with the High Courts. Article 131 states that the Federal disputes must be brought to the Supreme Court. These are the ones that happen between the State and Central Government, or between two or more states. The lower courts cannot hear these disputes. Article 226 allows the High Court to hear writ petitions. These can be later reviewed by the Supreme Court. Article 32 empowers the Supreme Court to issue writs to enforce fundamental rights.

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

**Explanation:** The series is decreasing by 8. Hence,  
 $73 - 8 = 65$

105 97 89 81 73 65

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

**Explanation:** Let the two numbers be  $5x, 3x$ .

$$5x \times 3x = 135$$

$$x^2 = 9$$

$$x = 3$$

$\therefore$  The two numbers are 15 and 9.

$$\frac{1}{\text{LCM}} + \frac{1}{\text{HCF}} = \frac{1}{3} + \frac{1}{45}$$

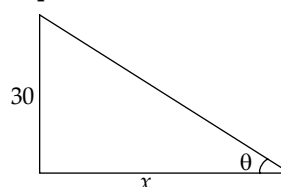
$$= \frac{16}{45}$$

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

**Explanation:** Panama became the first in Latin America to exit China's Belt and Road Initiative in 2025. The announcement followed a visit by US Secretary of State Marco Rubio, who also toured the Panama Canal. Chinese President Xi Jinping launched the BRI in 2013 to improve trade connectivity across Asia, Africa, Europe, and Latin America.

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

**Explanation:**



Given that,  $\tan \theta = \frac{15}{8}$

According to the above triangle,

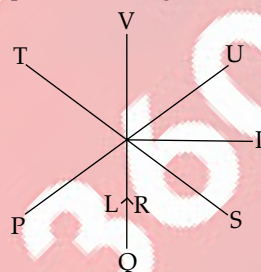
$$\tan \theta = \frac{30}{x}$$

So,  $\frac{15}{8} = \frac{30}{x}$

$$x = 16$$

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

**Explanation:** According to the given statements, possible arrangement is as follows:



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

**Explanation:**

$$\text{Distance remaining} = 519 \times \frac{1}{3} = 173 \text{ km}$$

$$\text{Time remaining} = 7 - 7 \times \frac{5}{7}$$

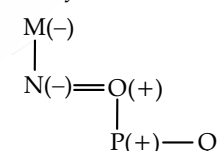
$$= 2 \text{ h}$$

$$\text{Speed} = \frac{173}{2}$$

$$= 86.5 \text{ km/h}$$

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

**Explanation:** According to the question, possible family tree,



So, M is mother's mother of Q.

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

**Explanation:**

X -3 U -3 R -3 O -3 L  
 B -3 Y -3 V -3 S -3 P  
 F -3 C -3 Z -3 W -3 T

So, missing term is LPT.

91. Correct option is (1).

**Explanation:** The Civil Courts primarily handle disputes related to property ownership and contractual agreements.

Criminal Courts deal with cases involving offences against the state, such as theft, assault, or murder. Revenue Courts are for matters related to land revenue, tenancy, and agricultural land disputes. Family Courts are dedicated to resolving disputes arising from family relationships, including marriage, divorce and child custody.

92. Correct option is (2).

**Explanation:**

F	A	R	M
↓ -3	↓ -3	↓ -3	↓ -3
C	X	O	J

Similarly,

R	I	C	H
↓ -3	↓ -3	↓ -3	↓ -3
O	F	Z	E

93. Correct option is (1).

**Explanation:** Slide Master is used for consistent formatting, fonts, and layouts across all slides. To open Slide Master view, one needs to click on the View tab and select Slide Master. The master slide is the top slide in the thumbnail pane on the left side of the window. When one edits the Slide Master, all slides that are based on that master will contain those changes.

94. Correct option is (2).

**Explanation:** Ascending order of given numbers, 11, 18, 27, 30, 34, 35, 52, 76, 81, 83, 84

$$\text{Median} = \left( \frac{11+1}{2} \right) \text{th term}$$

$$= 6 \text{th term}$$

$$= 35$$

95. Correct option is (3).

**Explanation:**  $3 \text{ median} = 2 \text{ mean} + \text{mode}$

$$\therefore \text{Mean} = \frac{3 \times 88 - 28.4}{2}$$

$$= 117.8$$

96. Correct option is (4).

**Explanation:**

$$\text{Let cost price} = C$$

$$C = \frac{517}{1.3}$$

$$C = 397.69$$

$$2\% \text{ profit} = 397.69 \times 2$$

$$= 7.95$$

$$\text{So, selling price} = 405.64$$

$$\text{Discount} = 517 - 405.64$$

$$= 111.36$$

$$\% \text{ of discount} = \frac{111.36}{517} \times 100$$

$$= 21.54$$

97. Correct option is (3).

**Explanation:**

Logic	67	+7	74
	13	+7	20
So,	52	+7	59

98. Correct option is (1).

**Explanation:** Following all conditions

7	2	@	1	3	&
W	A	Z	R	T	M

99. Correct option is (3).

**Explanation:** Raja Ram Mohan Roy was known for promoting inter-caste and inter-religious marriages through legislation. He was an Indian social reformer and one of the founders of the Brahmo Sabha. Roy strongly advocated for such marriages and was instrumental in abolishing the Sati Pratha in India by making it illegal through Regulation XVII of 1829.

100. Correct option is (1).

**Explanation:**

P	<u>-1</u>	O	<u>+3</u>	R
S	<u>-2</u>	Q	<u>+4</u>	U
L	<u>-2</u>	J	<u>+4</u>	N
E	<u>-2</u>	C	<u>+4</u>	G

So, here POR is not following the same pattern.