04 SOLVED PAPER
(Held on: 5th June 2025 Shift 02)

1. How many medals did India win in total at the World Para Athletics Grand Prix 2025?
(1) 120   (2) 150
(3) 134   (4) 180

2. The marked price of a desk is ₹7,725, which is 25% above the cost price. It is sold at a discount of 4% on the marked price. Find the profit percentage.
(1) 21%   (2) 19%
(3) 20%   (4) 22%

3. From a taxi stand, two cabs start at a speed of 74 km/hr at an interval of 28 minutes, both cabs travelling in the same direction. A man coming in the opposite direction towards the taxi stand meets the cabs at an interval of 10 minutes. Find the speed (in km/hr) of the man.
(1) 128.8   (2) 133.2
(3) 143.1   (4) 125.5

4. Select the number from among the given options that can replace the question mark (?) in the following series.
37 55 66 84 95 113?
(1) 166   (2) 145
(3) 131   (4) 124

5. In a certain code language, 'GIVE' is coded as '4628' and 'VOLT' is coded as '3567'. What is the code for 'V' in the given code language?
(1) 2   (2) 5
(3) 6   (4) 3

6. What is the primary function of the CPU in a computer system?
(1) Connect input and output devices.
(2) Execute instructions and process data.
(3) Manage the power supply.
(4) Store data permanently.

7. Which princely ruler patronised the Sikh community and institutions?
(1) Bhupinder Singh of Patiala
(2) Gaikwad of Baroda
(3) Raja of Travancore
(4) Maharaja of Jaipur

8. What is the total length of the Mahanadi river?
(1) 351 km   (2) 567 km
(3) 200 km   (4) 851 km

9. Atul's salary is ₹10,000 per month. He spends ₹6,000 on house rent and ₹2,500 on bills, and the rest of the amount is his monthly savings. Find his savings (in ₹) in a year, if in the month of his birthday, he spent all his monthly savings on birthday celebrations.
(1) 18,000   (2) 16,500
(3) 13,500   (4) 15,000

10. 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 ::?
: FLN :: TXB : %
(1) # = BPJ, % = XTF
(2) # = LFT, % = BPJ
(3) # = XTF, % = PBX
(4) # = PBX, % = XTF

11. 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) HK-LP   (2) KL-FG
(3) XY-ST   (4) OP-JK

12. One pipe can fill a tank in 10 minutes while another pipe can empty the completely filled tank in 20 minutes. If both the pipes are operated

together on empty tank, how long (in minutes) will it take to fill the tank completely?

(1) 22　　　　　**(2)** 21
(3) 23　　　　　**(4)** 20

13. If 'S' stands for '−' , 'Q' stands for 'x', 'R' stands for '÷', and 'P' stands for '+', what will come in place of the question mark (?) in the following equation?
1 P 4 5 R 2 Q 2 S 4 =?

(1) 40　　　　　**(2)** 42
(3) 46　　　　　**(4)** 36

14. What was the Infant Mortality Rate (IMR) in India according to the Sample Registration System (SRS), 2019?

(1) 32 per 1000 live births
(2) 34 per 1000 live births
(3) 30 per 1000 live births
(4) 28 per 1000 live births

15. P, Q, R, S, T, U and V are sitting around a circular table facing the centre. Only one person sits between R and T when counted from the left of T. Q sits third to the right of P. U sits third to the left of V. Q sits to the immediate right of U. S is not an immediate neighbour of U. How many people sit between S and T when counted from the right of S?

(1) 4　　　　　**(2)** 2
(3) 3　　　　　**(4)** 1

16. Suppose $x : y = 2 : 5$; $y : z = 4 : 7$. If ₹15,120 is distributed among x, y and z, then the amounts received by x, y and z, respectively, are (in ₹):

(1) 2,700, 6,000 and 6,420
(2) 2,500, 5,200 and 7,420
(3) 2,820, 4,500 and 7,800
(4) 1,920, 4,800 and 8,400

17. Manjit spends 40% of his income. If he saves ₹18,000, then his income (in ₹) is:

(1) 31,000　　　　　**(2)** 30,000
(3) 29,000　　　　　**(4)** 7,200

18. If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 6154932, how many digits will appear more than once in the new number thus formed?

(1) Three　　　　　**(2)** Four
(3) Two　　　　　**(4)** One

19. 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 ::?
: LPR :: PSV : %

(1) # = HNT, % = TUT
(2) # = HMR, % = TVW
(3) # = FNR, % = RVM
(4) # = FMP, % = RUY

20. 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 ::?
: AND :: RWX : %

(1) #=UTZ,%=OZV

(2) # = OZV, % = LCT
(3) # = XQB, % = UTZ
(4) # = LCT, % = XQB

21. What happens if an Indian citizen voluntarily becomes a citizen of another country?

(1) They become dual citizens.
(2) Nothing changes.
(3) Their Indian citizenship ends automatically.
(4) They must get government approval.

22. While covering a distance of 37 km, a man noticed that after cycling for 1 hour 5 minutes, the distance covered by him was $\frac{4}{3}$ of the remaining distance. What was his speed (in km/hr, rounded off to one decimal place)?

(1) 21.5　　　　　**(2)** 19.5
(3) 23.1　　　　　**(4)** 14 .5

23. If 3.5 : 17.4 :: 14 : x, find the value of x.

(1) 65.9　　**(2)** 72.9　　**(3)** 69.6　　**(4)** 67.9

24. Marks in statistics of 12 students are $x, 28, 35, 56, 78, 63, 65, 81, 79, 83, 80, y$, where x and y are the lowest and highest marks, respectively. If the range and average of the marks are 70 and 64, respectively, then the ordered pair (x, y) is:

(1) (23, 93)　　　　　**(2)** (35, 105)
(3) (25, 95)　　　　　**(4)** (30, 100)

25. Select the triad that follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.
EL-GN-IK
GN-IP-KM

(1) JP-KR-MQ　　　　　**(2)** IP-KR-MQ
(3) IP-KR-MO　　　　　**(4)** JP-KS-MQ

26. Sachin bought the first pen for ₹ 630 and the second pen for ₹ 722. He sells the first pen at 70% of the profit but the buyer bargains for the price, and he has to offer a 9% discount. He sells the second pen at 71% of the profit. Find the total profit he had in this transaction (correct to two decimal places).

(1) ₹ 855.49　　　　　**(2)** ₹ 857.23
(3) ₹ 856.32　　　　　**(4)** ₹ 854.79

27. In 2025, which state launched a groundbreaking initiative aimed at eradicating mother-to-child transmission of HIV, syphilis, and Hepatitis B by 2026?

(1) Madhya Pradesh　　**(2)** Uttar Pradesh
(3) Bihar　　　　　　　**(4)** West Bengal

28. Simplify the following.
$(2x + 3)^2 − (x + 1)^2$.

(1) $3x^2 + 10x + 8$
(2) $4x^2 + 12x + 8$
(3) $4x^2 + 10x + 6$
(4) $3x^2 + 7x + 6$

29. What was the major impact of penicillin's discovery?

(1) First vaccine for prevention of smallpox.
(2) First effective antibiotic against bacterial infections.

(3) First drug for Rabies prevention and cure.

(4) First antiviral drug for Human Immunodeficiency Virus (HIV).

30. This question is based on the words given below.

(Left) ACT BUS CAR DAD (Right)

In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding in the English alphabetical order. In how many letter–clusters thus formed, will no vowel appear?

(1) One   (2) Two

(3) None   (4) Three

31. Where did the two-day Chintan Shivir, held on 7–8 March 2025 to discuss preparations for the 2028 and 2036 Olympics, take place?

(1) New Delhi   (2) Hyderabad

(3) Mumbai   (4) Bengaluru

32. Uday starts from Point A and drives 3 km towards south. He then takes a right turn, drives 2 km, turns left and drives 5 km. He then takes a right turn and drives 3 km. He takes a final right turn, drives 8 km and stops at Point P. How far (shortest distance) and towards which direction should he drive to reach Point A again (all turns are 90° turns only unless specified)?

(1) 3 km; East   (2) 5 km; West

(3) 4 km; East   (4) 5 km; East

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

$63 \div 12 - 98 \times 7 + 35 = ?$

(1) 742   (2) 735

(3) 745   (4) 736

34. Solve : $70 + \dfrac{72}{6} + 29 - 30$

(1) 52   (2) 81

(3) 101   (4) 91

35. According to the Jal Jeevan Mission, what is the percentage target for rural households to receive tap water by 2024?

(1) 100%   (2) 70%

(3) 50%   (4) 85%

36. The curved surface area of a right circular cone is 6500π cm² and the diameter of its base is 100 cm. Find the height (in cm) of the cone.

(1) 125   (2) 120

(3) 119   (4) 115

37. Two pipes, A and B, can fill a tank of 3700 litres in 9 hours and 6 hours, respectively. If they are opened together, how many hours will they take to fill an empty tank of 6400 litres?

(1) $\dfrac{1152}{185}$ hours   (2) $\dfrac{1149}{185}$ hours

(3) $\dfrac{1159}{185}$ hours   (4) $\dfrac{1153}{185}$ hours

38. The difference between compound interest, compounded annually, and simple interest if ₹ 47,100 is deposited at 9% rate of interest per annum for 2 years is:

(1) ₹ 382.71   (2) ₹ 391.21

(3) ₹ 381.51   (4) ₹ 391.81

39. Who among the following was/were NOT part of the Santhal Rebellion?

(1) Kanho   (2) Bhairav

(3) Chand   (4) Tana Bhagats

40. The arithmetic mean of 25 real numbers is 110. If 10 numbers are increased by $12\dfrac{1}{2}$ each, another 10 numbers are increased by 15 each and the remaining 5 numbers are unaltered, then the new value of the arithmetic mean is:

(1) 125   (2) 121

(3) 120   (4) 112

41. In which order did Mendeleev arrange the elements in his periodic table?

(1) Decreasing atomic radius.

(2) Increasing number of neutrons.

(3) Increasing atomic number.

(4) Increasing atomic mass.

42. Rajesh has 156 litres of Oil A and 256 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 Rajesh uses, so that all the oil that Rajesh has, of both the types, can be poured into these containers?

(1) 13   (2) 4

(3) 10   (4) 6

43. Which of the following farming practices is mostly practised in Northeast India and causes soil erosion?

(1) Mixed farming

(2) Shifting agriculture

(3) Terrace farming

(4) Dairy farming

44. What is the percentage change in allocation for the Smart Cities Mission in India from the Revised Estimates of 2023–24 to the Budget Estimates of 2024–25?

(1) −80%   (2) −50%

(3) −70%   (4) −60%

45. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:

All cars are buses.

All buses are trucks.

Some buses are ships.

Conclusions:

(I) Some ships are cars.

(II) All trucks are cars.

(1) Neither conclusion (I) nor (II) follows.

(2) Only conclusion (I) follows.

(3) Both conclusions (I) and (II) follow.

(4) Only conclusion (II) follows.

46. Sunil starts from Point A and drives 11 km towards the south. He then takes a left turn, drives 3 km, turns left and drives 4 km. He then takes a left turn and drives 12 km. He takes a final right turn, drives 7 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) 8 km to the east   (2) 9 km to the west

(3) 7 km to the east   (4) 9 km to the east

47. The popular folk dance of Bihar, which represents the love and quarrel of a married couple, is called:

(1) Jat–Jatin   (2) Pata Kunitha

(3) Gaur Maria   (4) Singhi Chham

48. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

VCJ RYF NUB JQX?

(1) FTM   (2) FNT

(3) FMT   (4) FTN

49. Each of C, D, E, F, S, T and U has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only two people have the exam before T. Only one person has the exam after D. Only three people have the exam between T and F. Only one person has the exam between E and C. U has the exam immediately before E. Who among the following has the exam on Friday?

(1) E   (2) U

(3) T   (4) S

50. In holozoic nutrition, the first essential step for complex organisms is _____.

(1) egestion   (2) absorption

(3) ingestion   (4) assimilation

51. Simplify: $194 + [6 \times (1 - 6 + 5)] \div 12$

(1) 193   (2) 194

(3) 184   (4) 191

52. What is the primary function of an operating system in a laptop?

(1) To type documents.

(2) To manage hardware and software resources.

(3) To edit videos.

(4) To run internet browsers only.

53. Who took part in the 69th Session of the United Nations Commission on the Status of Women (UNCSW), held at the UN Headquarters in New York?

(1) Rekha Gupta   (2) Annpurna Devi

(3) Sumita Dawra   (4) Narendra Modi

54. What is the major constraint in dry land farming?

(1) Low water availability.

(2) Too much rainfall.

(3) Use of hybrid seeds.

(4) Lack of fertilisers.

55. In April 2025, Chief Justice Sanjiv Khanna named, _____ as his successor, who will be the _____ upon appointment.

(1) Justice B R Gavai; 53rd Chief Justice of India

(2) Justice B R Gavai; 52nd Chief Justice of India

(3) Justice Hima Kohli; 53rd Chief Justice of India

(4) Justice Surya Kant; 51st Chief Justice of India

56. 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) Wife's father's mother

(2) Wife's mother's mother

(3) Wife's mother's sister

(4) Wife's father's sister

57. Saura painting, a tribal art form, is traditionally practiced by communities in which Indian state?

(1) Rajasthan   (2) Gujarat

(3) Odisha   (4) Madhya Pradesh

58. In a certain code language, 'pizza base queen' is coded as 'du su qw' and 'pig queen wave' is coded as 'ic fv su'. How is 'queen' coded in the given language?

(1) ic   (2) su

(3) du   (4) qw

59. The curved surface area of a right circular cone is 5400π cm², and the diameter of its base is 144 cm. Find the height (in cm) of the cone.

(1) 16   (2) 21

(3) 22   (4) 20

60. If the mode of the following data is 140, then what is the value of x?

Class	125-130	130-135	135-140	140-145	145-150
Frequency	30	30	33	x	31

(1) 34   (2) 33

(3) 47   (4) 46

61. What is the main purpose of cache memory in a computer?

(1) To serve as virtual memory.

(2) To provide backup for RAM.

(3) To store frequently accessed data for quick retrieval.

(4) To permanently store user files.

62. Kamlesh buys some sarees and suits for ₹ 10,000. The cost of each saree is ₹ 1,500, and the cost of each suit is ₹ 1,000. The total number of sarees and suits is 8. Find the number of suits and sarees.

(1) 4 sarees and 4 suits

(2) 3 sarees and 5 suits

(3) 2 sarees and 6 suits

(4) 5 sarees and 3 suits

63. What is the ratio of the angles subtended by a chord at the centre of a circle to the angle subtended at any point on the circumference of the circle?

(1) 1 : 3   (2) 2 : 1

(3) 3 : 1   (4) 1 : 2

64. Find the value of m which satisfies
$$\left(\frac{29}{4}\right)^3 \times \left(\frac{4}{29}\right)^2 \times \left(\frac{29}{4}\right)^{11} = \left(\frac{4}{29}\right)^{9m+7}.$$

(1) $-\dfrac{19}{9}$ (2) $-\dfrac{23}{9}$

(3) $-\dfrac{18}{9}$ (4) $-\dfrac{10}{9}$

65. If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', then what will come in place of the question mark (?) in the following equation?

$502 ÷ 78 + 2 − 258 × 2 = ?$

(1) 124   (2) 74562

(3) 322   (4) 560

66. In April 2025, India and China initiated discussions to resume direct passenger flights that had been suspended since which year?

(1) 2020   (2) 2019

(3) 2021   (4) 2022

67. Which of the following best encapsulates the role of an operating system's kernel?

(1) Providing the graphical user interface for user interaction.

(2) Acting as the core interface between applications and the system hardware.

(3) Managing user accounts and access permissions.

(4) Offering a suite of utility programs for file management and system configuration.

68. This question is based on the five, three-digit numbers given below.

(Left) 956 521 251 156 335 (Right)

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

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

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

(1) 5   (2) 6

(3) 7   (4) 9

69. This question is based on the words given below.

(Left) DIE CUP BOX ASK (Right)

In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding in the English alphabetical order. In how many letter clusters thus formed, will no vowel appear?

(1) Two

(2) Three

(3) None

(4) One

70. Which author wrote the popular novel 'Held', shortlisted for Booker 2024?

(1) Anne Michaels   (2) J K Rowling

(3) Rick Riordan   (4) Sarah J Maas

71. What is the discriminant of the equation $x^2 − 2x + 13 = 0$? In addition, determine how many real solutions this equation has.

(1) 44, two real roots   (2) 48, no real roots

(3) 40, two equal roots   (4) 46, one real root

72. What role did the Indian People's Theatre Association (IPTA) play during the British rule?

(1) Encouraged the British education policy.

(2) Supported the British war efforts.

(3) Promoted classical dance.

(4) Expressed dissent through art.

73. A group of people consists of men, women and children. Among them, 20% are men, 50% are women and the rest are children, and their average weights are 45 kg, 60 kg and 20 kg, respectively. The average weight (in kg) of the group is:

(1) 44   (2) 45

(3) 43   (4) 42

74. When x is added to each of 26, 40, 22 and 34, then the numbers so obtained, in this order, are in proportion. Then, if $4x : y : : y : (7x − 6)$, and $y > 0$, what is the value of y?

(1) 2   (2) 8

(3) 3   (4) 9

75. What is the primary purpose of the vertical planetary mixer developed by ISRO in Feb 2025?

(1) To enhance the efficiency and safety of solid rocket motor manufacturing.

(2) To develop new materials for spacecraft.

(3) To create advanced propulsion systems for deep space missions.

(4) To improve satellite communication systems.

76. Where was the 13th Governing Council Meeting of the Bay of Bengal Inter-Governmental Organization (BOBP-IGO) held?

(1) Male, Maldives

(2) Chennai, India

(3) Colombo, Sri Lanka

(4) Dhaka, Bangladesh

77. 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.)

$3 − 5 − 10 − 12; 8 − 10 − 20 − 22$

(1) $6 − 10 − 12 − 24$ (2) $18 − 20 − 40 − 42$

(3) $28 − 30 − 60 − 64$ (4) $4 − 6 − 12 − 24$

78. The angle of elevation of the top of a tower from a point on the ground, which is 48 m away from the foot of the tower is 30°. Find the height of the tower.

(1) $15\sqrt{3}$ m   **(2)** $18\sqrt{3}$ m
(3) $12\sqrt{3}$ m   **(4)** $16\sqrt{3}$ m

79. Which schedule allows for the creation of village councils or courts for tribal cases?
(1) Sixth Schedule   **(2)** Fifth Schedule
(3) Tenth Schedule   **(4)** Seventh Schedule

80. What is the function of Alt + F2 in the Linux GNOME desktop environment?
(1) Toggles between full-screen and windowed mode.
(2) Closes the current application.
(3) Refreshes the current window.
(4) Opens the Run Command dialog box.

81. Which of the following rivers is NOT a tributary of the Ganga but flows directly into the Bay of Bengal?
(1) Gomti   **(2)** Ghaghara
(3) Kosi   **(4)** Mahanadi

82. What should come in place of the question mark (?) in the given series?
802 800 796 790 782?
(1) 776   **(2)** 774
(3) 772   **(4)** 770

83. 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) DAX   **(2)** KGE
(3) SOM   **(4)** WSQ

84. As of February 2025, how many youth were trained in vocational skills under the Nehru Yuva Kendra Sangathan initiatives?
(1) 35,677   **(2)** 28,275
(3) 18, 041   **(4)** 12,571

85. Which ruler regained his lost kingdom by 1555 after defeating Sher Shah Suri's successors, thereby marking the end of the Second Afghan Empire?
(1) Muhammad bin Tughluq
(2) Babur
(3) Aurangzeb
(4) Humayun

86. Each of T, U, V, W, X, Y and Z has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. X has an exam on the third day of the week. Only three people has an exam between X and T. Z has an exam immediately after V and Y has an exam immediately after Z. W does not have an exam on Monday. Who has an exam on Thursday?
(1) V   **(2)** Z
(3) W   **(4)** T

87. What was the theme of ICA Global Cooperative Conference in November 2024?
(1) Cooperatives Build Prosperity for All
(2) Cooperatives for Economic Growth
(3) Cooperatives Build a Better World
(4) Sustainable Development through Cooperatives

88. After the 97th Constitutional Amendment, for how long can a state co-operative law that is inconsistent with the amendment remain in force?
(1) 1 year   **(2)** 5 years
(3) 6 months   **(4)** 2 years

89. AB is parallel to CD. A transversal PQ intersects AB and CD at E and F, respectively, and ∠PEB = 56°. G is a point between AB and CD such that ∠BEG = 32° and ∠GFE = 47°. What is the measure of ∠EGF?
(1) 29°   **(2)** 46°
(3) 37°   **(4)** 41°

90. What percentage of seats are reserved for women under the 106th Amendment Act?
(1) 50%   **(2)** 33%
(3) 25%   **(4)** 10%

91. A vendor sold 5 chocolates for ₹ 1, thereby gaining 40%. How many chocolates did he buy for ₹ 1?
(1) 9   **(2)** 11
(3) 13   **(4)** 7

92. Which of the following is a major river of the Indus basin system?
(1) Ravi   **(2)** Yamuna
(3) Godavari   **(4)** Kaveri

93. What should come in place of the question mark (?) in the given series based on the English alphabetical order?
FCA GDB HEC IFD?
(1) JGE   **(2)** JGF
(3) JHF   **(4)** JHE

94. How much percentage of rural families rely on agriculture, livestock and Non-Timber Forest Products (NTFP) for their livelihoods according to the Annual Report 2024–25, published by Ministry of Rural Development?
(1) 80%   **(2)** 95%
(3) 70%   **(4)** 90%

95. A, B, C, D, G, H, and I are sitting around a circular table facing the centre.
Only two people sit between A and H when counted from the right of A. Only two people sit between H and D. Only three people sit between A and B. C sits to the immediate left of I.
Who sits third to the left of G?
(1) H   **(2)** A   **(3)** C   **(4)** I

96. Which ruler, upon his death in 1530, left behind a newly established empire that stretched across northern India–from the Indus River in the west to Bihar in the east, and from the Himalayas in the north to Gwalior in the south?
(1) Qutb ud-Din Aibak   **(2)** Babur
(3) Alauddin Khalji   **(4)** Aurangzeb

97. Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. P has the exam on Thursday. U has the exam on one of the days after R and on one of the days before T. V has the exam on one of the days after S but on one of the days before Q. S has the exam on one of the days after P. How many people have the exam before V?

(1) 5

(2) 2

(3) 3

(4) 4

98. Which of the following acts authorised the Governor General to override his council in matters affecting the interest of British empire in India?

(1) Pitt's India Act 1784

(2) Charter Act of 1793

(3) Regulating Act 1773

(4) Charter Act of 1813

99. In this question, a group of number/symbol is coded using letter codes as per the codes given below and the conditions which follow.

The correct combination of codes (following only the condition/s that apply) is your answer.

Number/Symbol	7	9	@	&	2	3	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 even number and the last an odd 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.

2 # @ 7 9

(1) D P Z L ©

(2) © P L Z C

(3) (c) P Z L C

(4) © P Z L ©

100. At what rate of interest (rounded off to two decimal places) per year will a sum of money double itself in 12 years on simple interest?

(1) 6.33%

(2) 8.33%

(3) 16.67%

(4) 10.33%

□□

ANSWER KEY

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

HINTS AND SOLUTIONS (5th June 2025 Shift 02)

1. **Correct option is (3).**
   Explanation: India won a total of 134 medals at the 2025 World Para Athletics Grand Prix. It finished at the top of the tally with 45 gold, 40 silver and 49 bronze medals.
   The World Para Athletics Grand Prix was held in New Delhi, marking India's first international para-athletics event.

2. **Correct option is (3).**
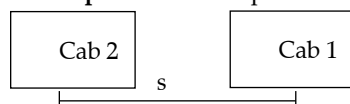   **Explanation:** Let cost is x.
   $$x \times 1.25 = 7725$$
   $$x = 6180$$
   Sold price $= 7725 \times (1 - 0.04)$
   $$= 7416$$
   Profit $= 7416 - 6180 = 1236$
   $$\% \text{ profit} = \frac{1236}{6180} \times 100 = 20\%$$

3. **Correct option is (2).**
   Explanation: Let speed of man $= u$

Cab 2		Cab 1
	s	

   $$S = 74 \times \frac{28}{60}$$
   $$t = \frac{s}{u+v}$$
   $$u \times \frac{10}{60} + 74 \times \frac{10}{60} = 74 \times \frac{28}{60}$$
   $$10\, u = 74 \times 28 - 74 \times 10$$
   $$10\, u = 74\,(28 - 10)$$
   $$10\, u = 1332$$
   $$u = 133.2$$

4. **Correct option is (4).**
   Explanation: Given pattern:
   37 + 18 = 55
   55 + 11 = 66
   66 + 18 = 84
   84 + 11 = 95
   95 + 18 = 113
   So, missing term = 113 + 11 = 124

5. **Correct option is (3).**
   Explanation:
   GI Ⓥ E = 4 ⑥ 2 8
   Ⓥ OLT = 35 ⑥ 7
   Code for V = 6

6. **Correct option is (2).**
   Explanation: The CPU (Central Processing Unit) is the brain of the computer. Its primary function is to interpret and execute instructions from computer programs and process data. CPU has the following components: Control Unit (CU), Registers, and Arithmetic Logical Unit (ALU).

7. **Correct option is (1).**
   Explanation: Maharaja Bhupinder Singh of Patiala patronised the Sikh community and institutions. He provided significant support for the cultural and religious development of the Sikh community. He had close ties with the Shiromani Gurudwara Prabandhak Committee (SGPC). His reign in Patiala lasted from 1900 to 1938, and he belonged to the Phulkian dynasty.

8. **Correct option is (4).**
   Explanation: The total length of the Mahanadi river is approximately 851 km. Its origin is in the Dandakaranya region, near Pharsiya village, Raipur district of Chhattisgarh, and it merges with the Bay of Bengal. It is the third-largest river in Central India, and the Mahanadi Basin is the eighth-largest in India. It mainly flows through the states of Chhattisgarh and Odisha, with smaller portions extending into Jharkhand, Maharashtra, and Madhya Pradesh.

9. **Correct option is (2).**
   Explanation: Monthly saving = 10000 – 6000 – 2500
   = 1500
   Total saving = 1500 × 11 = 16500

10. **Correct option is (1).**
    Explanation:

B	P	J
↓+4	↓–4	↓+4
F	L	N

    Similarly,

T	X	B
↓+4	↓–4	↓+4
X	T	F

11. **Correct option is (1).**
    Explanation:
    H $\xrightarrow{+4}$ L
    K $\xrightarrow{+5}$ P
    K $\xrightarrow{-5}$ F
    L $\xrightarrow{-5}$ G
    X $\xrightarrow{-5}$ S
    Y $\xrightarrow{-5}$ T
    O $\xrightarrow{-5}$ J
    P $\xrightarrow{-5}$ K

    All pairs are same except HK - LP.

12. **Correct option is (4).**
    Explanation: In one minute, amount of tank filled by pipe $= \frac{1}{10}$ part.

    In one minute, pipe can empty tank by $\frac{1}{20}$ time required to fill tank

$$= \cfrac{1}{\cfrac{1}{10} - \cfrac{1}{20}}$$

= 20 minute.

13. Correct option is (2).

Explanation:

$1 + 45 \div 2 \times 2 - 4$

Using BODMAS Rule

$1 + 45 - 4 = 42$

14. Correct option is (3).

Explanation: According to the Sample Registration System (SRS) Bulletin of the Registrar General of India (RGI), the Infant Mortality Rate (IMR) has reduced from 37 per 1000 live births in 2015 to 30 per 1,000 live births in 2019 at the National Level. The Ministry of Health and Family Welfare (MoHFW) is supporting all States/UTs in the implementation of the Reproductive, Maternal, Newborn, Child, and Adolescent Health and Nutrition (RMNCAH+N) strategy under the National Health Mission (NHM) based on the Annual Program Implementation Plan (APIP) submitted by States/ UTs.

15. Correct option is (3).

Explanation: According to the given statements, the arrangement is as follows,
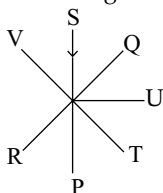
Three persons (V, R, P) between S and T.

16. Correct option is (4).

Explanation:

$\dfrac{x}{y} = \dfrac{2}{5}$

$\dfrac{y}{z} = \dfrac{4}{7}$

$y = \dfrac{5x}{2}$

$z = \dfrac{7y}{4}$

$z = \dfrac{7}{4}\left(\dfrac{5x}{2}\right)$

$= \dfrac{35x}{8}$

$\therefore x : y : z = x : \dfrac{5x}{2} : \dfrac{35x}{8}$

$= 8 : 20 : 35$

Amount received by

$x = \dfrac{15120 \times 8}{63}$

$= 240 \times 8$

$= 1920$

Received by $y = 240 \times 20$

$= 4800$

Received by $z = 240 \times 35 = 8400$

17. Correct option is (2).

Explanation:

Spends = 40%

Saving = 100 – 40

= 60%

Total income $= 18000 \times \dfrac{100}{60}$

$= 30000$

18. Correct option is (3).

Explanation:

6	1	5	4	9	3	2
↓+2	↓−1	↓−1	+2	↓−1	↓−1	↓+2
8	0	4	6	8	2	4

Both 8 and 4 accured two times.

19. Correct option is (1).

Explanation:

H	N	T
↓+4	↓+2	↓−2
L	P	R

Similarly,

P	S	V
↓+4	↓+2	↓−2
T	U	T

20. Correct option is (3).

Explanation:

X	Q	B
↓+3	↓−3	↓+2
A	N	D

Similarly,

R	W	X
↓+3	↓−3	↓+2
U	T	Z

21. Correct option is (3).

Explanation: If an Indian citizen voluntarily becomes a citizen of another country, their Indian citizenship ends automatically. 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.

22. Correct option is (2).

Explanation:

Let remaining distance = x.

Covered distance $= \dfrac{4x}{3}$

$\dfrac{4x}{3} + x = 37$

$x = \dfrac{37 \times 3}{7}$

Covered distance $= \dfrac{(37 \times 3)}{7} \times \dfrac{4}{3} = \dfrac{(37 \times 4)}{7}$

$t = \left(1 + \dfrac{5}{60}\right)$ hr

$= \dfrac{13}{12}$

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}} = \frac{37 \times 4}{7 \times 13} \times 12$$
$$= 19.5$$

23. Correct option is (3).
Explanation:
$$\frac{3.5}{17.4} = \frac{14}{x}$$
$$x = \frac{14 \times 17.4}{3.5}$$
$$x = 17.4 \times 4 = 69.6$$

24. Correct option is (3).
Explanation:
Range = $70 = y - x$ ...(1)
$$\text{Average} = 64 = \frac{x + y + 648}{12}$$
$$768 = x + y + 648$$
$$x + y = 120 \qquad \text{...(2)}$$
From Eqs. (1) and (2), we have,
$$2y = 70 + 120$$
$$y = 95$$
$$\therefore x = 95 - 70$$
$$= 25$$

25. Correct option is (3).
Explanation: Given Pattern:
E $\overset{+2}{}$ G $\overset{+2}{}$ I
L $\overset{+2}{}$ N $\overset{+3}{}$ K
Similarly
I $\overset{+2}{}$ K $\overset{+2}{}$ M
P $\overset{+2}{}$ R $\overset{+3}{}$ O

26. Correct option is (2).
Explanation:
Price of first pen = $630 \times (1.7)$
$$= 1071$$
9% discount = 96.39
Profit = $1071 - 630 - 96.39$
$$= 344.61$$
Profit in second pen = $722 \times (0.71) = 512.62$
Net profit = $512.62 + 344.61$
$$= 857.23$$

27. Correct option is (4).
Explanation: West Bengal launched a groundbreaking initiative aimed at eradicating mother-to-child transmission of HIV, syphilis and Hepatitis-B by 2026. This will be achieved under the project 'Triple Elimination' initiative. It is a collaborative effort of the West Bengal government, the William J Clinton Foundation, and the World Health Organisation (WHO). Every pregnant woman is screened for HIV, syphilis and Hepatitis-B during their anti-natal period. Those who test positive receive immediate treatment and counselling.

28. Correct option is (1).
Explanation: $(2x + 3)^2 - (x + 1)^2$.
$$= 4x^2 + 12x + 9 - (x^2 + 2x + 1)$$
$$= 3x^2 + 10x + 8$$

29. Correct option is (2).
Explanation: Alexander Fleming discovered penicillin accidentally in 1928 while working as a bacteriologist at St. Mary's Hospital in London. It revolutionised medicine as it was the first effective antibiotic against bacterial infections. This significantly reduced deaths from bacterial infections.

30. Correct option is (4).
Explanation:
Original − ACT BUS CAR DAD
According to the question, new words-
    BBS AVR BBQ CBC
BBS, BBQ, CBC has no vowel.

31. Correct option is (2).
Explanation: The Union Minister of Youth Affairs and Sports and Labour & Employment, Dr. Mansukh Mandaviya, chaired the high-level Chintan Shivir held at Kanha Shanti Vanam, Hyderabad. The event was organised with a strategic vision for the 2028 Los Angeles Olympics and India's ambitious bid to host the 2036 Summer Games. It brought together sports ministers from various States/UTs, senior sports administrators, key government officials, and domain experts to exchange ideas and craft a roadmap for India's emergence as a global sports powerhouse.

32. Correct option is (4).
Explanation:
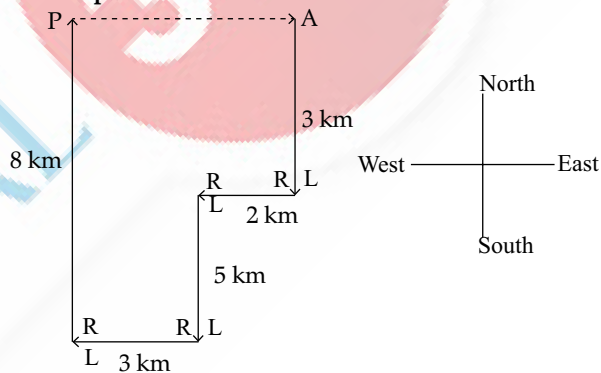
AP = 3 + 2 = 5
He should move 5 km, east to reach point A again.

33. Correct option is (2).
Explanation: According to given condition, we have,
+ & − are interchanged and × and ÷ are interchange
$63 \times 12 + 98 \div 7 - 35$ (using BODMAS rule)
$$= 756 + 14 - 35$$
$$= 735$$

34. Correct option is (2).
Explanation:
$$70 + \frac{72}{6} + 29 - 30$$
$$= 70 + 12 - 1$$
$$= 81$$

35. Correct option is (1).

Explanation: Prime Minister Narendra Modi launched the Jal Jeevan Mission (JJM) on August 15, 2019, to ensure functional household tap connections for every rural family so that they have a safe water supply.

As of February 1, 2025, the JJM has successfully provided tap water connections to 12.20 crore additional rural households, bringing the total coverage to over 15.44 crore households, which accounts for 79.74% of all rural households in India. Initially, only 3.23 crore (17%) rural households had tap water connections.

36. Correct option is (2).

Explanation:

Surface area $= \pi r l$

$$\pi r l = 6500\pi$$
$$2r = 100 \Rightarrow r = 50$$
$$\therefore \quad 50\, l = 6500 \quad l = 130$$
$$l^2 = h^2 + r^2$$
$$(130)^2 = h^2 + (50)^2$$
$$16900 - 2500 = h^2$$
$$h^2 = 14400$$
$$h = 120$$

37. Correct option is (1).

Explanation: In one hour pipe A fill $= \dfrac{3700}{9}$ L

$$\text{pipe B fill} = \frac{3700}{6} \text{ L}$$
$$\text{In one hour both fill} = \frac{3700}{9} + \frac{3700}{6} \text{ L}$$
$$= 3700 \times \frac{5}{18} \text{ L}$$
$$\text{time required} = \frac{6400 \times 18}{3700 \times 5}$$
$$= \frac{1152}{185} \text{ hours.}$$

38. Correct option is (3).

Explanation:

$$\text{Compound interest} = 47100\left(1 + \frac{9}{100}\right)^2 - 47100$$
$$\text{Simple interest} = \frac{47100 \times 2 \times 9}{100}$$
$$\text{Difference} = 8859.51 \,\square\, 8478 = 381.51$$

39. Correct option is (4).

Explanation: Santhal rebellion, also known as Santhal Hul of 1855 was led by four brothers–Sidho, Kanho, Chand, and Bhairav Murmu–along with sisters Phulo and Jhano. It was an uprising against the upper castes, zamindars, darogas and moneylenders, collectively termed 'diku' along with the Britishers. This peasant rising was to protect the economic, cultural and religious rights of the Santhal community.

Tana Bhagat was started in April 1914, under the leadership of Jatra Bhagat in Chotanagpur, Jharkhand. The movement was started to stop the evil practices that were taking place in the Oraon community of Chotanagpur and to oppose the Jamindars policies, which were exploiting the Oraon people directly.

40. Correct option is (2).

Explanation: New arithmetic mean
$$= 110 + \frac{12.5 \times 10 + 10 \times 15}{25}$$
$$= 110 + \frac{275}{25}$$
$$= 110 + 11$$
$$= 121$$

41. Correct option is (4).

Explanation: In Mendeleev's periodic table, the known elements were arranged in the increasing order of their atomic masses. He is known as the 'Father of the Periodic Table'. However, in the modern periodic table, the elements are arranged in increasing order of their atomic number.

42. Correct option is (2).

Explanation: Oil A = 156 L

Oil B = 256 L
$$156 = 4 \times 3 \times 13$$
$$256 = 16 \times 16$$
$$\text{H.C.F.} = 4$$

Maximum volume = 4 L

43. Correct option is (2).

Explanation: Shifting agriculture is mostly practised in Northeast India and causes soil erosion. It is also known as Jhum cultivation. It involves burning forest land to clear it and then cultivating it for a few seasons. This increases the potassium content of the soil and ultimately increases its fertility. Post that, the farming shifts to a new plot, which can lead to significant soil erosion. The initial yields are high, and subsequently, the fertility of the soil decreases.

44. Correct option is (1).

Explanation: For the Union budget 2025, Smart cities were allocated ₹2,400 crore, down from ₹8,000 crore in the FY24 revised estimate. Thus, there was an approximately –80% change in the allocation. The Smart Cities Mission (SCM) was launched on June 25, 2015, to improve the quality of life in 100 cities by providing efficient services, robust infrastructure and sustainable solutions.
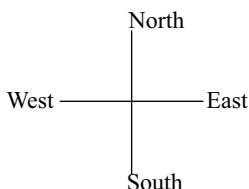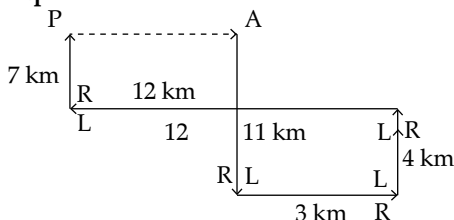
45. Correct option is (1).
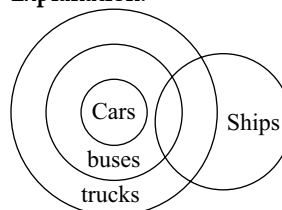
Explanation:

From venn diagram: neither conclusion (I) nor (II) follows.

46. Correct option is (4).
Explanation:

PA = 12 – 3 = 9 km.
So, he has to move 9 km towards east to reach at starting point.

47. Correct option is (1).
Explanation: The popular folk dance of Bihar, which represents the love and quarrel of a married couple, is called *Jat–Jatin.* It is a traditional folk dance of the *Mithila* and *Koshi* districts of Bihar. It is performed on a moonlit night during the rainy season.

Pata Kunitha is a folk dance of Karnataka. The highlight of this dance is the use of '*Pata*', which are decorated bamboo poles. The dance portrays a vibrant form of devotion, storytelling, and communal unity.

Gaur Maria is a folk dance of Chhattisgarh and is performed during marriages.

Singhi Chham is a folk dance of Sikkim. It is performed by the members of the Bhutia community and is also known as the Snow Lion dance.

48. Correct option is (3).
Explanation: V $\xrightarrow{-4}$ R $\xrightarrow{-4}$ N $\xrightarrow{-4}$ J $\xrightarrow{-4}$ F
C $\xrightarrow{-4}$ Y $\xrightarrow{-4}$ U $\xrightarrow{-4}$ Q $\xrightarrow{-4}$ M
J $\xrightarrow{-4}$ F $\xrightarrow{-4}$ B $\xrightarrow{-4}$ X $\xrightarrow{-4}$ T

49. Correct option is (4).
Explanation: According to the given statements, the arrangement is as follows,
Mon – U
Tue – E
Wed – T
Thu – C
Fri – S
Sat – D
Sun – F

50. Correct option is (3).
Explanation: In holozoic nutrition, the first essential step for complex organisms is ingestion. In the holozoic mode of nutrition, the food is ingested and internal digestion of solid organic food particles takes place. The steps of holozoic nutrition are ingestion, digestion, absorption, assimilation and egestion.

51. Correct option is (2).
Explanation: 194 + [6 × (1 – 6 + 5)] ÷ 12
= 194 + 0 = 194

52. Correct option is (2).
Explanation: An operating system is the software that manages computer hardware and software resources, provides common services for computer programs, and acts as an intermediary between the user and the hardware.

53. Correct option is (2).
Explanation: A delegation of the Government of India, led by Annpurna Devi, Union Minister, Women and Child Development (WCD), participated in the 69th session of the Commission on the Status of Women. It was held at the United Nations Headquarters, New York. She highlighted the progress of India on gender equality, addressing the 12 critical areas of concern with a transformative 'whole-of-government' and 'whole-of-society approach' for empowering women across all walks of life. CSW is the principal global intergovernmental body exclusively dedicated to the promotion of gender equality, the rights and the empowerment of women.
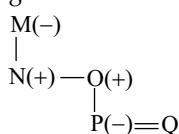
54. Correct option is (1).
Explanation: The major constraint in dry land farming is low water availability. It is practised in regions with low and erratic rainfall. It relies on rainfall rather than irrigation.

55. Correct option is (2).
Explanation: In April 2025, Chief Justice Sanjiv Khanna named Justice Bhushan Ramkrishna Gavai as his successor, who will be the 52nd Chief Justice of India. Justice Gavai was elevated to the Supreme Court of India on 24 May 2019, took the oath as the Chief Justice of India on 14th May 2025 and is set to retire on 23 November, 2025. According to Article 124 (2) of the Indian Constitution, the President of India administers the oath to the Chief Justice of the Supreme Court.

56. Correct option is (1).
Explanation: The family tree according to the given instruction:

M(–)
|
N(+) — O(+)
|
P(–) = Q

M is Q's wife's father's mother.
Hence, correct answer is option (1).

57. Correct option is (3).
Explanation: *Saura* painting, a tribal art form, is traditionally practised in Odisha. It is a traditional art of Sauras, one of India's oldest tribes. These paintings are made on red and brown clay walls of homes using natural dyes obtained from leaf extracts and flowers, rice and white stone. The brush is made from bamboo. These paintings are made during special occasions such as marriage, harvest etc, and dedicated to Idital, the *deity* of the Sauras.

58. Correct option is (2).
Explanation: Given codes:
Pizza base queen = du (su) qw
Pig queen wave = ic fv su
Thus, the code for queen = su

59. Correct option is (2).
Explanation:
Surface area = $\pi r l = 5400\pi$
$$rl = 5400$$
$$2r = 144$$
$$r = 72$$
$$\therefore \quad 72l = 5400$$
$$l = 75$$
$$r^2 + h^2 = l^2$$
$$(72)^2 + h^2 = 75^2$$
$$h^2 = 5625 - 5184$$
$$h^2 = 441$$
$$h = 21$$

60. Correct option is (2).
Explanation:

Class	125–130	130–135	135–140	140–145	145–150
Frequency	30	30	33	x	31

$$\text{Mode} = l + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right)h$$

$$\text{Mode} = 140$$
$$x \geqslant 33$$

$$140 = 140 + \frac{(x-33)h}{2f_1 - f_0 - f_2}$$
$$0 = x - 33$$
$$x = 33$$

61. Correct option is (3).
Explanation: Cache memory stores frequently accessed data for quick retrieval. It speeds up data access by holding recently or frequently used information near the CPU. It acts as a buffer between the CPU and RAM (Random Access Memory).

62. Correct option is (1).
Explanation: Let he buy x sarees.
$$\therefore 1500x + 1000(8 - x) = 10000$$
$$1500x - 1000x = 2000$$
$$x = 4$$

63. Correct option is (2).
Explanation: It is property of circlethat the ratio of the angles subtended by a chord at the centre of a circle is double to the angle subtended at any point on the circumference of the circle.
∴ answer is 2 : 1

64. Correct option is (1).
Explanation: $\left(\dfrac{29}{4}\right)^3 \times \left(\dfrac{4}{29}\right)^2 \times \left(\dfrac{29}{4}\right)^{11} = \left(\dfrac{4}{29}\right)^{9m+7}$
$$\left(\frac{29}{4}\right)^{11+3-2} = \left(\frac{4}{29}\right)^{9m+7}$$

$$\therefore \quad -12 = 9m + 7$$
$$m = -19/9$$

65. Correct option is (3).
Explanation: According to given condition, we have,
$502 + 78 - 2 \times 258 \div 2$
Using BODMAS rule
$502 + 78 - 2 \times 129$
$= 580 - 258 = 322$

66. Correct option is (1).
Explanation: In April 2025, India and China initiated discussions to resume direct passenger flights that had been suspended since 2020. Direct flights between the two countries were halted following the outbreak of the COVID-19 pandemic and the India–China border clashes in 2020.

67. Correct option is (2).
Explanation: The kernel is the core of an operating system. It acts as a bridge between applications and the hardware, managing system resources like memory, CPU, and I/O devices, and scheduling processes.

68. Correct option is (2).
Explanation: Highest number = 956
Lowest number = 156
Resultant = 5 + 1 = 6

69. Correct option is (1).
Explanation: Original
DIE   CUP   BOX   ASK
New
CJF   BVO   APW   BRJ
No vowel letter–clusters are CJF, BRJ.

70. Correct option is (1).
Explanation: 'Held' is a novel written by Anne Michaels, and it was shortlisted for the Booker Prize 2024. The Booker Prize is given for the best work of fiction in English that has been published either in the United Kingdom or Ireland.

71. Correct option is (2).
Explanation: $x^2 - 2x + 13 = 0$
$$D = b^2 - 4ac$$
$$= 4 - 4 \times 13 = -48$$
No real root.

72. Correct option is (4).
Explanation: The Indian People's Theatre Association (IPTA) was established in 1942 as an organisation that integrated and popularised the cultural movement alongside the struggle for freedom. It used theatre and other art forms to criticise British rule and advocate for independence.

73. Correct option is (2).
Explanation:
Men = 20%
Women = 50%
Children = 30%
Average = $45 \times 0.2 + 60 \times 0.5 + 20 \times 0.3$
$$= 9 + 30 + 6$$
$$= 45$$

74. Correct option is (2).

Explanation: 26, 40, 22, 34

$26 + x, 40 + x, 22 + x, 34 + x$

$$\frac{26+x}{40+x} = \frac{22+x}{34+x}$$

$$\frac{26+x}{40+x} - 1 = \frac{22+x}{34+x} - 1$$

$$\frac{-14}{40+x} = \frac{-12}{34+x}$$

$7(34 + x) = 6(40 + x)$

$238 + 7x = 240 + 6x$

$x = 2$

Now, $4x : y :: y : 7x - 6$

$$\frac{4x}{y} = \frac{y}{7x-6}$$

$4x(7x - 6) = y^2$

$8(14 - 6) = y^2$

$y = 8$

75. Correct option is (1).

Explanation: The Indian Space Research Organisation (ISRO) has developed the world's largest solid propellant mixing equipment — a 10-ton vertical mixer weighing approximately 150 tons, with dimensions of 5.4 m in length, 3.3 m in breadth, and 8.7 m in height.

This equipment will enhance productivity, quality, and throughput in the production of heavy solid motors. It also allows high-capacity mixing of propellant ingredients in a single batch with precision and control, ensuring consistency and optimal performance.

76. Correct option is (1).

Explanation: The 13th Governing Council Meeting of the Bay of Bengal Inter-Governmental Organization (BOBP–IGO) was held at Males, Maldives. India assumed the Chairmanship of 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.

77. Correct option is (2).

Explanation: Given pattern:

$3 \xrightarrow{+2} 5 \xrightarrow{\times 2} 10 \xrightarrow{+2} 12$

$8 \xrightarrow{+2} 10 \xrightarrow{\times 2} 20 \xrightarrow{+2} 22$

Similarly

$18 \xrightarrow{+2} 20 \xrightarrow{\times 2} 40 \xrightarrow{+2} 42$

78. Correct option is (4).

Explanation:

$$\tan\theta = \frac{h}{48}$$
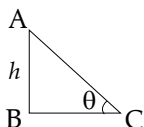
$h = 48\tan\theta \qquad \left(\theta = 30°\right)$

$= 48\tan30°$

$= \frac{48}{\sqrt{3}}$

$h = 16\sqrt{3}$

79. Correct option is (1).

Explanation: The sixth schedule of the Indian Constitution has provisions for the Administration of tribal areas in Assam, Meghalaya, Tripura and Mizoram. It provides for the constitution of Autonomous District Councils (ADCs) in these areas. These councils also have legislative, judicial and executive powers. They have the power to create courts for tribal cases.

80. Correct option is (4).

Explanation: In the Linux GNOME desktop environment, pressing Alt + F2 opens the 'Run Command' dialogue box, which enables users to launch applications or execute commands quickly.

81. Correct option is (4).

Explanation: Mahanadi is not a tributary of the Ganga but flows directly into the Bay of Bengal. The Ganga river flows through five Indian states— Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal. Some of the major tributaries of Ganga are–Yamuna, Ramganga, Gomti, Ghaghara, Gandak, Damodar and Kosi.

82. Correct option is (3)

Explanation: Given pattern:

$802 - 2 = 800$

$800 - 4 = 796$

$796 - 6 = 790$

$790 - 8 = 782$

So, $782 - 10 = 772$

83. Correct option is (1).

Explanation: $D \xrightarrow{-3} A \xrightarrow{-3} X$

$K \xrightarrow{-4} G \xrightarrow{-2} E$

$S \xrightarrow{-4} O \xrightarrow{-2} M$

$W \xrightarrow{-4} S \xrightarrow{-2} Q$

84. Correct option is (2).

Explanation: As of February 2025, 28,275 youth were trained in vocational skills under the Nehru Yuva Kendra Sangathan (NYKS) initiatives. NYKS was launched in 1972 to empower rural youth and involve them in nation-building while enhancing their skills and personality. NYKS is an autonomous body under the Ministry of Youth Affairs and Sports. It was established in 1987 and oversees these Kendras.

85. Correct option is (4).

Explanation: Humayun regained his lost kingdom by 1555 after defeating Sher Shah Suri's successors, thereby marking the end of the Second Afghan Empire. He was defeated by Sher Shah in the Battle of Chausa (1539) and the Battle of Kannauj (1540), after which he was forced into exile. However, Humayun won the Battle of Sirhind (1555) after defeating Sikandar Suri, the rebel Afghan governor

of Punjab. This marked the entry of Humayun's control over Delhi and Agra, restoring the presence of the Mughal Empire in India.

86. **Correct option is (1).**
Explanation: According to the statements, the arrangement is as follows,
Mon – U
Tue – W
Wed – X
Thu – V
Fri – Z
Sat – Y
Sun – T
So, V has exam on Thursday.

87. **Correct option is (1).**
Explanation: The theme of the International Cooperative Alliance (ICA) Global Cooperative Conference was 'Cooperatives Build Prosperity for All'.
ICA Global Cooperative Conference and ICA General Assembly were organised in India for the first time in the 130-year-long history of the ICA, the premier body for the Global Cooperative movement. Prime Minister Narendra Modi inaugurated the conference and launched the UN International Year of Cooperatives 2025 at Bharat Mandapam, New Delhi.

88. **Correct option is (1).**
Explanation: The 97th constitutional amendment gave constitutional status and protection to cooperative societies. The right to form cooperative societies was included as Right to Freedom (Article 19 (1). Article 243ZT of the 97th constitutional amendment states that any provision of any law relating to co-operative societies in force in a State immediately before the 97th amendment, which is inconsistent with the provisions of this Part, shall continue to be in force until amended or repealed by a competent Legislature or other competent authority or until the expiration of one year from such commencement, whichever is less.

89. **Correct option is (4).**
Explanation:

$$\angle EGF + 47° = 56° + 32°$$
$$\angle EGF = 88° - 47°$$
$$= 41°$$
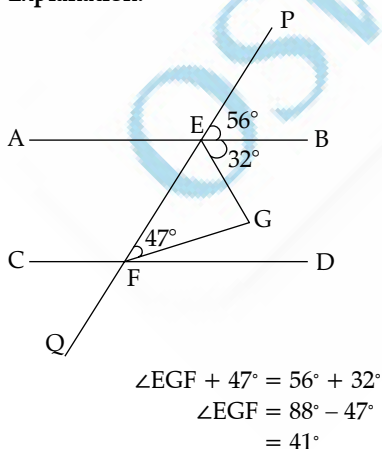
90. **Correct option is (2).**
Explanation: The Constitution (106th Amendment) Act, 2023, reserves 33% (one-third) of all seats for women in the Lok Sabha, State legislative assemblies, and the Legislative Assembly of the National Capital Territory of Delhi, including those reserved for SCs and STs. It is also known as the Nari Shakti Vandan Adhiniyam. It shall come into effect after the first exercise of delimitation is undertaken after this amendment act.

91. **Correct option is (4).**
Explanation:
Cost of 5 chocolates $= x × 1.4$
$$1.4x = 1$$
$$x = \frac{1}{1.4}$$
Total chocolates in Rs 1 $= 5 × 1.4$
$$= 7$$

92. **Correct option is (1).**
Explanation: The principal tributaries of the Indus are the Sutlej, Beas, Ravi, Chenab and Jhelum. Sutlej is the longest tributary of the Indus River, and Chenab is the largest tributary of the Indus. The Indus river rises from Mansarovar in Tibet at an elevation of approximately 5182 m and flows for approximately 2880 km upto its outfall into the Arabian sea. The length of the river in India is 800.75 km.
The Indus basin extends over an area of 11,65,500 sq. km and lies in Tibet, India, Pakistan and Afghanistan. The drainage area lying in India is 321289 sq. km. The basin lies in Jammu and Kashmir, Himachal Pradesh, Punjab, Rajasthan, Haryana and Chandigarh.

93. **Correct option is (1).**
Explanation: The given pattern:
F $\overset{+1}{}$ G $\overset{+1}{}$ H $\overset{+1}{}$ I $\overset{+}{}$ J
C $\overset{+1}{}$ D $\overset{+1}{}$ E $\overset{+1}{}$ F $\overset{+1}{}$ G
A $\overset{+1}{}$ B $\overset{+1}{}$ C $\overset{+1}{}$ D $\overset{+1}{}$ E

94. **Correct option is (4).**
Explanation: The livestock grew at a CAGR of 12.99% from 2014–15 to 2022–23. Its contribution in total agriculture and allied sector Gross Value Added (GVA) has increased from 24.38% in 2014–15 to 30.23% in 2022–23 (at Current Prices). The livestock sector contributed 5.50% of total GVA in 2022–23 (at Current Prices).

95. **Correct option is (4).**
Explanation: According to the given statements, the arrangement is as follows:
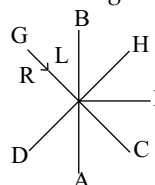
Hence, I is 3rd to the left of G.

96. **Correct option is (2).**
Explanation: Babur, after he died in 1530, left behind a newly established empire that stretched

across northern India—from the Indus river in the west to Bihar in the east, and from the Himalayas in the north to Gwalior in the south. Babur was the founder of the Mughal Empire in India. He defeated Ibrahim Lodi in the first battle of Panipat to lay the foundation of the Mughal empire in India. After his death, he was succeeded by Humayun.

97. Correct option is (1).
Explanation: According to the given statements, the arrangement is as follows:

Mon – R
Tue – U
Wed – T
Thu – P
Fri   – S
Sat   – V
Sun – Q

So, 5 people have exam before V.

98. Correct option is (2).
Explanation: The Charter Act of 1793 authorised the Governor General to override his council in matters affecting the interests of the British Empire in India. This provision greatly strengthened the Governor-General's authority.

99. Correct option is (4).
Explanation: Following the conditions.

2 # @ 7 9
© P Z L ©

100. Correct option is (2).
Explanation: Let initial amount = 100

$$\text{Interest} = 100$$

Using, SI = PRT/100

$$100 = \frac{100 \times r \times 12}{100}$$

$$r = \frac{100}{12}$$

$$= 8.33\%$$