1. Answers are to be given in the separate **OMR** sheet.

2. Don't break the seal unless you're instructed to do so. If the seal is broken before the scheduled time, penalty will be minus 10 marks.

3. There are **100 questions** in this test paper. All questions are compulsory. Questions numbered **1 to 20** belong to **Science**, **21 to 35** pertain to **Mathematics**, **36 to 50** belong to **Social Science** and **50-100** are on **Mental Ability**.

4. Please ensure that the question paper you have received contains all the questions in each section and pages. If you find any mistake like missing question or pages then contact the invigilator, immediately.

5. Please follow the instructions given on the OMR sheet for marking the answers.

6. Write your nine-digit registration number, allotted to you in the admit card, clearly on the test-booklet.

7. Rough work can be done anywhere in the booklet but not on the OMR sheet /loose paper.

8. Each **correct answer** will be awarded **one mark**.

9. There is **no negative marking.**

10. Please return, only the OMR sheet to the invigilator, after the test.

11. Use black/blue ball point pen only provided in the examination hall.

12. Write your registration number very clearly (only one digit in one block) on this booklet.

13. Answer each question, by darkening the correct alternative among the four choices on the **OMR Sheet** as shown below.

Correct way:	Q.No.	Alternatives			
	1	①1	②2	●	④4
Wrong way:	Q.No.	Alternatives			
	1	⊗	⊖2	③✓	④

14. Since the time allotted for this question paper is very limited and all questions carry equal marks, you should make the best use of it by not spending too much time on one question. Time permitting, you can come back to the question, which you have left in the first instance and try them again.

15. Use of whitener/white fluid, is strictly prohibited, on the OMR sheet, for changing the answer.

Note: Please turn over the page and start answering only after you are asked to do so.

Scholastic Aptitude Test (SAT)

01. We use_____to play cricket
    (1) muscular energy (2) chemical energy
    (3) both   (4) none of these

02. Our main source of energy is the _____ .
    (1) coal   (2) petrol
    (3) sun   (4) wood

03. What is called structure built on river to get electricity?
    (1) road   (2) dam
    (3) bridges   (4) none of these

04. We should use _____ efficient gadgets.
    (1) energy   (2) heat
    (3) both (1) & (2) (4) none of these

05. Solar cookers, solar heater and solar panel use energy of the
    (1) light   (2) sun
    (3) electricity (4) none of these

06. Wood, coal and petroleum are example of a
    (1) Rocks   (2) Fuel
    (3) Stones   (4) none of these

07. The force that works against motion is _____ .
    (1) friction   (2) newton
    (3) direction   (4) acceleration

08. What are the basic types of rocks found on earth?
    (1) Igneous, sedimentary, metamorphic
    (2) Volcanic, plutonic, extrusive
    (3) Gneiss, basalt, obsidian
    (4) Condensation and heat

09. Air is a mixture of gases.
    (1) True   (2) False
    (3) May be   (4) None of these

10. Air is a _____ resource.
    (1) Artificial   (2) Natural
    (3) both (1) & (2) (4) None of these

11. Transport of sediments usually occurs by _____ .
    (1) People carrying them
    (2) Rivers carrying them
    (3) By exploding volcanoes
    (4) On the basis of acidic or basic nature

12. Metamorphic rocks are the result of _____ .
    (1) Sedimentation of particles
    (2) Weathering and erosion
    (3) Heat and pressure
    (4) Water pressure

13. Sheet erosion is caused by:
    (1) Fast running river   (2) Wind
    (3) Heavy rains   (4) Glaciers

14. Deforestation may reduce the chances of:
    (1) Rain fall
    (2) Frequent cyclones
    (3) Erosion of surface soil
    (4) Frequent landslides

15. We should exercise yoga daily, because it_____.
    (1) Strengthens our muscles
    (2) Increases our stamina
    (3) Improves our concentration
    (4) All of these

16. Plant: Flora :: Animals : _____ .
    (1) Herbivore   (2) Carnivore
    (3) Fauna   (4) Decomposers

17. Anemia can be corrected by
    (1) Taking calcium tablet
    (2) Taking iron tablets
    (3) Taking vitamin E capsule
    (4) Taking vitamin B capsule

18. Who grows food for us?
    (1) Doctor   (2) Farmer
    (3) Teacher   (4) Engineer

Space for rough work

19. What is the habitat of whale?
    (1) Air   (2) Ocean
    (3) Mountain   (4) Forest

20. Which of the following is/are component(s) of balanced diet
    (1) Carbohydrate   (2) Protein
    (3) Fat   (4) All of these

21. How many numbers between 1 and 100 are equal to 5 times an odd number?
    (1) 8   (2) 10   (3) 12   (4) 14

22. The sum of the remainders of $123 \div 4, 234 \div 5$ and $345 \div 2$ is
    (1) 4   (2) 16   (3) 8   (4) 20

23. If I double the number of pens in my backpack and add 5, I get 23. How many pens do I have in my backpack?
    (1) 9   (2) 23   (3) 8   (4) 7

24. $65 - (43 + 21) = (65 - 43) -$ _____
    (1) 9   (2) 15   (3) 21   (4) 26

25. Wednesday is five days after my party, on what day is my party?
    (1) Friday   (2) Saturday
    (3) Sunday   (4) Thursday

26. Each of my shoes weighs the same. If 2 of my shoes weighs 12 kg together, then the total weight of 12 of my shoes is
    (1) 14 kg   (2) 18 kg
    (3) 24 kg   (4) 72 kg

27. What time is 420 minutes before 4. pm.?
    (1) 6 : 00 am   (2) 8 : 00 am
    (3) 9 : 00 am   (4) 10 : 00 am

28. 10 hundreds + 10 tens + 10 ones =
    (1) 101 (2) 1001 (3) 1110 (4) 1100

29. All together, 27 trapezoids have the same number of sides as _____ triangles.
    (1) 6   (2) 12   (3) 63   (4) 36

30. $2^3 \times 3^4 \times 4^5 \times 6^7 \times 9^{10} =$
    (1) $2^{15} \times 3^{21}$ (2) $2^{20} \times 3^{31}$
    (3) $2^{15} \times 3^{40}$ (4) $2^{105} \times 3^{280}$

31. Which number sentence is true?
    (1) $8 + 0 = 8 \times 1$ (2) $8 + 2 = 8 \times 2$
    (3) $8 + 4 = 8 \times 2$ (4) $8 + 7 = 8 \times 2$

32. The figure shown here is made up of 2 equal rectangles. Find the area of figure.

    (1) 256 cm²   (2) 250 cm²
    (3) 252 cm²   (4) 352 cm²

33. Mansi can make 4 paper cranes is 3 minutes. How many paper cranes can she make in 1 hours?
    (1) 82   (2) 80   (3) 84   (4) 76

34. The sum of two different odd numbers and an even number could be:
    (1) 52   (2) 25   (3) 84   (4) 93

35. If I triple _____ and divide the result by 6, the quotient is 18.
    (1) 32   (2) 36   (3) 63   (4) 64

36. Which of the following is famous as the ship of the desert?
    (1) Cow   (2) Tiger
    (3) lion   (4) camels

37. River Zaire is also known as the river
    (1) Nile   (2) Limpopo
    (3) Orange   (4) Congo

38. Which of the following statements regarding the vegetation of the Democratic Republic of Congo is wrong?
    (1) It is covered with thick evergreen forests
    (2) The forests have canopy
    (3) Trees of these forests fall their leaves once a year
    (4) These are also called the heart of darkness

Space for rough work

39. Which of the following is the main food crops of Congo?
    (1) Banana
    (2) Cassava
    (3) Both (1) and (2)
    (4) None of these

40. The degree of coldness and hotness of the air is known as;
    (1) Precipitation
    (2) Rainfall
    (3) Convection
    (4) Temperature

41. Which of the following statements regarding the climate of Greenland is wrong
    (1) It has polar climate
    (2) It remains snow covered throughout the year
    (3) Summer of Greenland is very hot
    (4) There is heavy rainfall

42. Eskimos live in
    (1) buildings
    (2) Pucca houses
    (3) houses
    (4) igloos

43. It passes through Saudi Arabia
    (1) Tropic of Capricorn
    (2) Tropic of Cancer
    (3) Equator
    (4) Arctic circle

44. Which of the following statements regarding Saudi Arabia is wrong?
    (1) Saudi Arabia is a cold and dry desert
    (2) It can be characterised by the sand dunes
    (3) Oasis are found in Saudi Arabia
    (4) Bedouins live in the Arabian desert

45. Petroleum is also known as_____ .
    (1) diamond
    (2) liquid silver
    (3) liquid gold
    (4) None of these

46. The judges of the Supreme Court are appointed by the _____
    (1) Prime Minister
    (2) Governor
    (3) Speaker
    (4) President

47. Which of the following is the official judicial organ of the UN?
    (1) The Trusteeship Council
    (2) The ICJ
    (3) The General Assembly
    (4) The Secretariat

48. The Secretary-General is the head of the
    (1) Security Council
    (2) Secretariat
    (3) General Assembly
    (4) Trusteeship Council

49. The great explorer of the world includes:
    (1) Lord Byron
    (2) Vasco da Gamma
    (3) Sarojini Naidu
    (4) Albert Einstein

50. The person who gave the lesson of peace and non-violence to the world, and led India to independence is:
    (1) Jawahar Lal Nehru
    (2) Mahatma Gandhi
    (3) Subhash Chandra Bose
    (4) Mother Teresa

Space for rough work

Mental Ability Test (MAT)

51. In a certain code, PORTION is written as OROITNO. How is CRITICS written in that code?
    (1) BIRITSC   (2) DIRTICS
    (3) DIRITSC   (4) BIRISTC

52. In a certain code language, the word HUMBLE is written 'FMCNVI'. How will the word 'SYSTEM' be written in that language?
    (1) NUFZTT
    (2) TZTUFN
    (3) NFUTZT
    (4) TTUZFN

53. If COULD is code as 84127 and EXPEL is coded as 93592, then would you code COUPLE?
    (1) 841529   (2) 418259
    (3) 541289   (4) 814295

54. In a certain code, if SCHOOL is coded as 123445, TEAM as 6078, how is MOTEL coded in that code?
    (1) 34785
    (2) 60734
    (3) 84605
    (4) 34605

55. Which number would replace question mark in the series 5, 10, 17, ?, 37
    (1) 29   (2) 28
    (3) 26   (4) 24

56. Which fraction comes next in the sequence 3, 5/2, 7/4, 9/8?
    (1) 11/8   (2) 10/32
    (3) 11/16   (4) 12/30

57. Find the missing number in the given series:
    7, 11, 18, 29,_____76.
    (1) 41   (2) 50
    (3) 51   (4) 47

Direction (58-59): study the following number series to answer the given question.

2, 6, 7, 5, 4, 3, 7, 4, 8, 9, 4, 3, 2, 5, 4, 7, 9, 8, 6, 8, 7, 1, 2, 5, 3, 7, 6, 8, 9, 3, 6.

58. How many 3s are there in the series which are immediately preceded by an even number and immediately followed by an odd number?
    (1) 2   (2) 4   (3) 1   (4) 3

59. How many such numbers are there in the series which are immediately preceded by its multiple?
    (1) 3   (2) 1   (3) 5   (4) 4

60. Which of the following will not be number of the series 2, 10, 30, 68, 130,_____
    (1) 729   (2) 222   (3) 520   (4) 1010

61. Which term comes next in the series? ZEC, XFE, VHH, TKJ,………..
    (1) SGL   (2) ROM
    (3) ROL   (4) SNL

62. Pointing towards a person in a photograph, Mohan said, "He is the only son of the father of my mother's brother". How is the person related to Mohan?
    (1) Mother   (2) Father
    (3) Maternal Uncle   (4) Brother

63. Pointing out a lady, Sanjana said, "she is the daughter of the woman who is the mother of the husband of my mother". Who is the lady to Sanjana?
    (1) Sister-in-law
    (2) Grand Daughter
    (3) Daughter
    (4) Aunt

64. M and N are sisters, P and Q are brothers. M's son is Q's brother. How is N related to P?
    (1) Grandfather   (2) Uncle/Aunt
    (3) Father   (4) Brother

Space for rough work

65. Sangeeta is sister of Anoj, Praveen is son of Sangeeta. Varun is the brother of Praveen. How is Varun related to Sangeeta?
    (1) Father　　　(2) Brother
    (3) Nephew　　　(4) Son

66. Gaurav is facing south. He turns 45° in the anticlockwise direction and then another 180° in the same direction and then 135° in the clockwise direction. Find which direction he is facing now?
    (1) South
    (2) South-East
    (3) South-West
    (4) East

67. Mohan walks 10 km towards the North. From there he walks 6 km towards the South. Then, he walks 3 km towards the east. How far and in which direction is he with reference to his starting point?
    (1) 3 Km South
    (2) 4 Km East
    (3) 5 Km South
    (4) 5 Km North-East

Direction (68-71): Study the information and answer the question given:

Seven people-A, B, C, D, E, F, and G are in a circle facing the centre. B is 2nd to the right of E. A is between E and D. F is between B and G.

68. Which pair amongst the following are not immediate neighbours?
    (1) EC　　　(2) DA
    (3) GF　　　(4) DB

69. G is sitting
    (1) 4th to the left of E
    (2) Between A and F
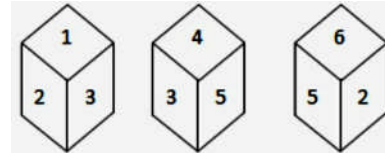   (3) 2nd to the left of A
    (4) to the immediate left of F

70. Who is sitting in the immediate left of C?
    (1) E　(2) D　(3) F　(4) G

71. What is the position of D with respect to F?
    (1) 2nd to the right
    (2) 3rd to the left
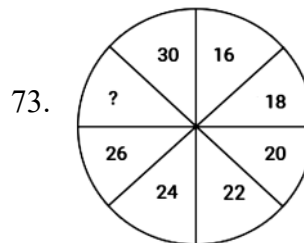   (3) Immediate left
    (4) Immediate right

72. A dice with six faces is marked with six numbers 1, 2, 3, 4, 5 and 6 respectively. This dice is rolled three times and three positions are shown as:
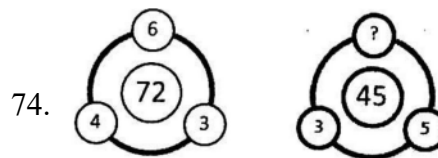

Find the number opposite to 1.
    (1) 2　　(2) 6　　(3) 5　　(4) 4
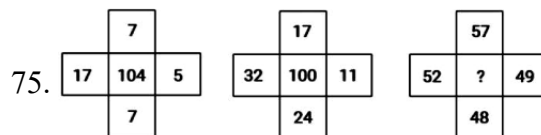
Direction (73-78): there is a question mark in an empty cell. Find out the correct alternative.

73.

    (1) 19　(2) 28　(3) 32　(4) 34

74.

    (1) 2　　(2) 4　　(3) 3　　(4) 5

75.

    (1) 70　　　　　(2) 80
    (3) 90　　　　　(4) 100

76.

E	J	O
A	C	B
D	G	?

   (1) M   (2) O   (3) N   (4) T

77.

7	22	5
5	9	11
9	11	15
38	77	?

   (1) 160   (2) 120   (3) 83   (4) 55

78.

20	48	36
10	16	8
5	?	4
40	64	72

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

Direction (79-86): There is a series provided to you where a gap is left. Analyze the series and fill the gap.

79. 19, 18, 34, 99,………..,1955
   (1) 738   (2) 318   (3) 392   (4) 224

80. abb____baa___ba___aab____aba
   (1) abbb   (2) abab
   (3) ccac   (4) aabb

81. J99, H63, ____, D15, B3
   (1) E23   (2) F35   (3) F31   (4) D33

82. 0, 6, _____60, 120
   (1) 48   (2) 6   (3) 24   (4) 79

83. 2, 3, 5, 7, 11, _____, 17
   (1) 12   (2) 13   (3) 14   (4) 15

84. 9, 42, 12, 40, _____, 38, 18
   (1) 43   (2) 36   (3) 15   (4) 20

85. 8, 13, 23, 38, 58,_____
   (1) 44   (2) 83   (3) 53   (4) 93

86. 212, 211, 207, 198, 182, ?
   (1) 202   (2) 179   (3) 140   (4) 157

Directions (87-91): In the following question in certain code language if '+' means 'x', '–' means '+', 'x' means '÷' , and '÷' means '–', then answer the following questions.

87. $16 + 2 – 3 ÷ 4 = ?$
   (1) 31   (2) 26
   (3) 15   (4) None of these

88. $9 + 3 ÷ 18 x 3 + 4 = ?$
   (1) 30   (2) 3   (3) 13   (4) 0

89. $28 ÷ 36 – 49 x 7 + 2 = ?$
   (1) 12   (2) 10   (3) 8   (4) 6

90. $171 x 57 ÷ 279 x 93$
   (1) 250   (2) 253   (3) 252   (4) 0

91. $8 ÷ 6 – 9 x 12 + 4$
   (1) 5   (2) 7   (3) 9   (4) 13

Direction (92-94): In these questions select the related number from the given options.

92. 8 : 256 :: 12 : ?
   (1) 90   (2) 100   (3) 798   (4) 864

93. 2 : 3 :: 23 : ?
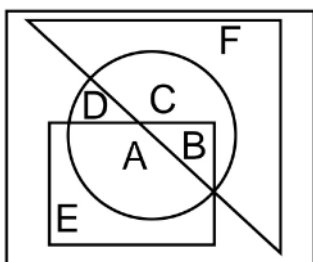   (1) 23   (2) 28   (3) 45   (4) 29

94. 3 : 36 :: 11 : ?
   (1) 98   (2) 287
   (3) 596   (4) 1452

Directions (95-97): In each of the following questions four words have been given each of which three are alike in some manner and the fourth one is different. Choose out the odd one.

95. (1) Apple   (2) Mango
   (3) Watermelon   (4) Guava

Space for rough work

96. (1) Microscope (2) Telescope
    (3) Periscope (4) Stethoscope

97. (1) Commander (2) Commodore
    (3) Brigadier (4) Admiral

98. A man is facing north-west. He turns 90° in the clockwise direction and then 135° in the anticlockwise direction. Which direction is he facing now?
    (1) East (2) West
    (3) North (4) South

99. Which one of the following statements is correct with regard to the given figure?

    (1) A and B are in all the three shapes
    (2) E, A, B, C are in all the three shapes
    (3) F, C, D, B, A are in all the three shapes
    (4) Only B is in all the three shapes

100. Arrange the following given names in the appropriate order based on the English dictionary (telephone directory) and select the correct order.
    (a) Avdesh
    (b) Avadhesh
    (c) Awadesh
    (d) Awadhesh
    (1) b,c,d,a (2) b,a,c,d
    (3) a,b,c,d (4) b,a,d,c

Space for rough work

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ANSWER KEY

01.	(1)	02.	(3)	03.	(2)	04.	(1)	05.	(2)	06.	(2)	07.	(1)
08.	(1)	09.	(1)	10.	(2)	11.	(2)	12.	(3)	13.	(3)	14.	(1)
15.	(4)	16.	(3)	17.	(2)	18.	(2)	19.	(2)	20.	(4)	21.	(2)
22.	(3)	23.	(1)	24.	(3)	25.	(1)	26.	(4)	27.	(3)	28.	(3)
29.	(4)	30.	(2)	31.	(1)	32.	(3)	33.	(2)	34.	(1)	35.	(2)
36.	(4)	37.	(4)	38.	(3)	39.	(3)	40.	(4)	41.	(3)	42.	(4)
43.	(2)	44.	(1)	45.	(3)	46.	(4)	47.	(2)	48.	(2)	49.	(2)
50.	(2)	51.	(1)	52.	(3)	53.	(1)	54.	(3)	55.	(3)	56.	(3)
57.	(4)	58.	(3)	59.	(2)	60.	(2)	61.	(2)	62.	(3)	63.	(4)
64.	(2)	65.	(4)	66.	(4)	67.	(4)	68.	(4)	69.	(3)	70.	(1)
71.	(1)	72.	(3)	73.	(2)	74.	(3)	75.	(2)	76.	(1)	77.	(1)
78.	(2)	79.	(3)	80.	(1)	81.	(2)	82.	(3)	83.	(2)	84.	(3)
85.	(2)	86.	(4)	87.	(1)	88.	(2)	89.	(4)	90.	(4)	91.	(1)
92.	(4)	93.	(3)	94.	(4)	95.	(3)	96.	(4)	97.	(1)	98.	(2)
99.	(4)	100.	(2)										