

SATCHASI CHHATRA MANGAL MERIT SEARCH TEST (SCMMST) 2026



Reg. No.: S0010324/1970-71

Roll No: OMR Serial No...... Type of OMR.....	Class : X Full Marks : 100 Time : 12 Noon – 2 PM Date of Examination: 30th August, 2026 Signature of Invigilator: 												
FOR STUDENTS	FOR EXAMINER												
INSTRUCTIONS YOU WILL ANSWER IN <u>OMR SHEET ONLY.</u> YOU MUST ANSWER ALL QUESTIONS. DO NOT LOOK OTHER & OUTSIDE. ONLY CORRECT ONE WILL BE MARKED. <u>DARKEN ONLY ONE CIRCLE WITH YOUR BLACK/BLUE BALL PEN AND MAINTAIN THE INSTRUCTIONS AS PER OMR COPY.</u> DO NOT USE WOOD PENCIL. IF YOU WILL MARK TWO / THREE / FOUR, THEN THAT WILL BE CANCELLED. YOU DO NOT DO YOUR ROUGH WORK IN THE OMR SHEET. FIRST YOU THINK AND THEN YOU DO. YOUR ACHEIVMENT ONLY FOR YOU. IT HAS NO RELATION WITH YOUR REGULAR CLASS RESULT ALL QUESTIONS CARRY EQUAL MARK (I.E. 1) BEFORE THE FINAL STARTING BELL YOU WRITE YOUR NAME, ROLL NUMBER, ZONE AND ADDRESS. 100 QUESTIONS MUST BE ANSWERED WITHIN TWO HOURS. NO EXTRA TIME WILL BE GIVEN FOR YOU FOR ANY CIRCUMSTANCE. ONLY YOU CAN DEVELOP YOURSELF.	<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <caption style="text-align: center; font-weight: normal;">TABLE FOR OBTAINED MARKS</caption> <tr> <th style="text-align: center;">TYPE QUESTION</th> <th style="text-align: center;">TOTAL MARKS</th> <th style="text-align: center;">OBTAINED MARKS</th> </tr> <tr> <td style="text-align: center;">S A T</td> <td style="text-align: center;">50 (FIFTY)</td> <td></td> </tr> <tr> <td style="text-align: center;">M A T</td> <td style="text-align: center;">50 (FIFTY)</td> <td></td> </tr> <tr> <td style="text-align: center;">TOTAL</td> <td style="text-align: center;">100</td> <td></td> </tr> </table> Signature of Exam. Coordinator : <i>S. Mandal</i> Date :	TYPE QUESTION	TOTAL MARKS	OBTAINED MARKS	S A T	50 (FIFTY)		M A T	50 (FIFTY)		TOTAL	100	
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ROUGH WORK

1. Greenhouse effect is responsible for —
A) γ -rays B) Infrared rays C) UV rays D) X-rays
2. The quantity which remains unchanged in refraction of light is —
A) Velocity B) Frequency C) Wave length D) Intensity
3. If the refractive index of water were the same for all colours, the colors of the rainbow would be —
A) Black B) White C) Yellow D) Green
4. Which of the given elements will bond with hydrogen to form an ionic compound?
A) Ca B) C C) Na D) Li
5. Active current is —
A) Copper B) Graphite C) Gascarbon D) Platinum
6. If a closed coil is brought near the N pole, the near end of the coil will produce —
A) S pole B) N – pole C) Indifference point D) None of these
7. Vapor density of O_2 gas at $15^\circ C$ is 16, vapor density at $70^\circ C$ is —
A) 16 B) 80 C) 8 D) 32
8. What is used to convert AC to DC is —
A) Amplifier B) Oscillator C) Motor D) Rectifier
9. The weight of 1L of a gas at STP is the molecular mass of the gas —
A) 0.089 times B) 0.0891 times C) 20.089 times D) 2×0.089 times
10. If the lower half of a convex lens is covered with black paper, its focal length is —
A) Halve B) Increase C) Decrease D) Remain unchanged
11. Pseudomonas bacteria are associated with which of the given steps in the nitrogen cycle?
A) Nitrogen fixation B) Ammonification C) Nitrification D) Denitrification
12. Which kind of generation facilitates the expression of—
A) Asexual reproduction B) Sexual reproduction C) Organ reproduction D) None of these

SCMMST 26
TOTAL MARKS – 100 (MCQ)
CLASS TEN (X) ; ENGLISH VERSION

13. The most biodiverse region in India is —
A) Himalayas B) Western Ghats C) Sundarbans D) Gangetic plains
14. Which cell organelle forms the tubule during cell division?
A) Ribosomes B) Golgi bodies C) Mitochondria D) Lysosomes
15. Which sentence is grammatically correct?
A) Neither of the 2 boys are absent. B) Neither of the 2 boys is absent.
C) Neither boys is absent D) Neither 2 boys are absent.
16. By next Monday she ----- the project.
A) completes B) completed C) will have completed D) has completed
17. "Whatever the leader promises is false." - Identify the type of clause.
A) Adjective clause B) Noun clause C) Adverb clause D) Principal clause
18. Choose the correct passive voice. – '**Please post the letter**'.
A) Let the letter is posted please B) Please the letter was posted
C) Let be kind enough to post the letter. D) Let the letter was posted please
19. Change the narration. - **The teacher said, 'Man is mortal'** __
A) The teacher asked if man is mortal. B) The teacher said that man is mortal.
C) The teacher said that man was mortal. D) The teacher told man is mortal.
20. Choose the correct opposite word of '**Vagrant**' ____
A) Relaxed B) Settled C) Overrate D) Defeat
21. One word for A **person who is entitled to act on behalf of others** ____
A) Delegate B) Prophet C) Humbug D) Glutton
22. Choose the correct animal sound of '**Pigs**' ____
A) croak B) bleat C) grumble D) grunt
23. Choose the correct phrasal verb of '**Distribute**' ____
A) give in B) give out C) give up D) give away

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CLASS TEN (X) ; ENGLISH VERSION

24. Choose the synonym of '**cautious**'----

- A) careful B) careless C) bold D) reckless

25. She insisted ---- paying the bill

- A) at B) on C) in D) with

26. Choose the correct phrasal verb. The strike was **withdrawn**.

- A) called off B) call in C) break out D) break in

27. Choose the correct clause. 'Don't go **until I get ready**.'

- A) Noun clause B) Adjective clause C) Adverbial clause D) Principal clause

28. Choose the antonym of '**Optimistic**'

- A) Hopeful B) Cheerful C) Pessimistic D) Positive

29. If a certain sum of money doubles in 8 years at a specific rate of interest, in how many years will it become four times that amount at the same rate?

- A) 16 years B) 24 years C) 20 years D) 32 years

30. There is a circle with a radius of 10 cm and a chord of length 16 cm. What is the perpendicular distance from the center of the circle to the chord?

- A) 4 cm B) 5 cm C) 6 cm D) 8 cm

31. An arc of a circle subtends an angle of 140° at the center. What is the measure of the angle subtended by the same arc at any point on the remaining part of the circle?

- A) 70° B) 140° C) 280° D) 35°

32. If the ratio of the two roots of the equation $x^2 - px + 4 = 0$ is 1, then which of the following relationships is correct?

- A) $p^2 = 4q + 1$ B) $p^2 = 4q - 1$ C) $q^2 = 4p + 1$ D) $q^2 = 4p - 1$

33. "Honey tastes sweet." Change the voice.

- A) Someone is tasted honey. B) Honey is sweet when it is tasted.

- B) Honey is sweet if it was tasted. D) both B & C

34. If $\tan 1^\circ, \tan 2^\circ, \tan 3^\circ, \dots, \tan \theta = 1$, then what is the value of θ ?

- A) 45° B) 89° C) 90° D) 180°

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35. If the ratio of the mean and the median of a dataset is 2:3, what will be the ratio of the mode to the median?

- A) 3:2 B) 4:3 C) 5:3 D) 2:1

36. If S is the total surface area of a rectangular parallelepiped (cuboid) and the sum of the lengths of its 12 edges is $4L$, what will be the length of one of its diagonals?

- A) $\sqrt{L^2 - S}$ B) $\sqrt{L^2 - 2S}$ C) $\sqrt{2L^2 - S}$ D) $\sqrt{L^2 + S}$

37. There are 5 electric poles placed at equal intervals between two stations, A and B, which are 20 km apart. What is the distance (in km) between two consecutive electric poles?

- A) 5 B) 4 C) 2 D) 3

38. Who is the current Vice President of India?

- A) Jagdeep Dhankhar B) M. Venkaiah Naidu C) C P Radhakrishnan D) Krishan Kant

39. Where was the G20 summit 2023 held?

- A) Mumbai B) Bengaluru C) New Delhi D) Goa

40. Who is the author of the book "The Idea of Justice"?

- A) Amartya Sen B) Rabindranath Tagore C) Chetan Bhagat D) Shashi Tharoor

41. Who was India's first female IPS officer?

- A) Kiran Bedi B) Sarojini Naidu C) Indira Gandhi D) Pratibha Patil

42. Under which Articles are Fundamental Rights described?

- A) Articles 12-35 B) Articles 36-51 C) Articles 52-73 D) Articles 74-95

43. What is the name of India's first supercomputer?

- A) Param B) Agni C) Tejas D) Shakti

44. Where is the headquarters of UNESCO located?

- A) Geneva B) New York C) Paris D) Rome

45. What did Article 370 of the Indian Constitution pertain to?

- A) Right to Education B) Special status of Jammu & Kashmir C) Reservation D) Emergency

46. Which bacterium is responsible for nitrogen fixation?

- A) E. coli B) Rhizobium C) Lactobacillus D) Bacillus

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47. Which is the largest dam in India?

- A) Bhakra-Nangal B) Tehri C) Sardar Sarovar D) Hirakud

48. When was the "Atmanirbhar Bharat" campaign launched?

- A) 2019 B) 2020 C) 2021 D) 2022

49. Which country is known as the "Land of Thousand Lakes"?

- A) Norway B) Finland C) Canada D) Sweden

50. Who is the current Governor of the Reserve Bank of India?

- A) Raghuram Rajan B) Shaktikanta Das C) Urjit Patel D) Sanjay Malhotra

MENTAL ABILITY TEST

1X 50 = 50

51. $11 : 120 :: 9 : ?$

- (A) 90 (B) 80 (C) 100 (D) 110

52. If 'PROMOTION' is written as '135' in one sign language, how is 'DEMOTION' written in the same language?

- A) 90 B) 86 C) 95 D) 68

53. In any sign language, if $64 - 43 = 3$, $54 - 26 = 1$, then $88 - 72 = ?$

- A) -2 B) 6 C) 5 D) 8

54. A and B are sisters. A is D's mother. B has a daughter C, who is married to G. E is A's husband. So what is the relationship between G and B?

- A) Mother-in-law B) Brother-in-law C) Son-in-law D) Father-in-law

55. A man pointed his finger at Richa and said, "She is the only sister of my father-in-law's only son". So who is Richa that person?

- A) Cousin B) Wife C) Sister D) Sister-in-law

56. A is the father of X and B is the mother of Y. Y is sister of X and Z is Y. Which of the following is definitely not true?

- A) B is mother of Z B) X is sister of Z C) Y is son of A D) B has a daughter

57. A boy was facing north-east. He turned 90° to the left and again 90° to the same direction. Which way is he facing now?

- A) South B) Southwest C) North D) Northwest

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58. Sneha took her car and went 4 km north. Then turned right and went for 5 km. Turn right again and go for 4 km. Now how far is he from the starting point and in which direction?

- A) 5 km, west B) 16 km, west C) 5 km, east D) 16 km, east

59. Rohan was facing southwest. He turned 270° to the right and then again 90° in the same direction. Which way is he facing now?

- A) Southwest B) Northwest C) South D) Southeast

60. Arrange the following words in meaningful order and choose the correct option.

1. Shoulder 2. Stomach 3. Face 4. Neck 5. Foot

- A) 5, 4, 3, 2, 1 B) 3, 4, 1, 2, 5 C) 4, 3, 5, 2, 1 D) 1, 2, 3, 4, 5

61. In a group of 6 people, Vijay is taller than only 3 people. Arun is taller than Dev and Rahul, but shorter than Arjun. Arjuna is not the tallest. Arjuna is taller than Dev. Who is the tallest among the following?

- A) Arjuna B) Arun C) Ajay D) Vijay

62. Which of the following interchange of signs will make the equation correct?

$$75 \times 2 - 150 \div 2 = 25 \times 3 + 150$$

- A) + and = B) $\times$ and $\div$ C) $\div$ and = D) + and $\times$

63. If 'P' stands for '+', 'Q' stands for ' $\div$ ', 'R' stands for ' $\times$ ' and 'S' stands for '-', then what is the value of $7P3Q5R3S4$?

- A) 2.4 B) 2.6 C) 2.2 D) 4.8

64. How many degrees of angle will the hour hand make in 744 seconds?

- A) 5.3° B) 3.2° C) 4.3° D) 6.2°

65. If 'PROBLEM' is written as 'ROBLEMP', what will be written as 'MATHEMATICS'?

- A) MHTHEMATICS B) ATHEMATICSM C) THEMATICSM D) ATHEMSTICMS

66. What is the sum of the first 10 even natural numbers?

- A) 90 B) 100 C) 110 D) 120

67. The product of two consecutive positive integers is 3061. Which quadratic equation is correct?

- A) $x^2 + x - 3061 = 0$ B) $x^2 - x - 3061 = 0$ C) $x^2 + x + 3061 = 0$ D) $x^2 - x + 3061 = 0$

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68. A father is 3 times as old as a son. After 12 years father's age will be 2 times of son's. What is the current age of the father?

- A) 30 years B) 36 years C) 42 years D) 48 years

69. What is the value of x in $3x - 5 = x + 7$?

- A) 4 B) 5 C) 6 D) 7

70. 21, 18, 15... Which term of this parallel progression is -81?

- A) 30th B) 32nd C) 35th D) 36th

71. If the perimeter and area of a square are equal in number, what is the length of the side?

- A) 2 units B) 3 units C) 4 units D) 5 units

72. The length of the tangent from a point Q on the outside of a circle is 12 cm and the distance of Q from the center is 13 cm. What is the radius?

- A) 5 cm B) 7 cm C) 9 cm D) 11 cm

73. In a triangle whose angles are in the ratio 1:2:3, what is the largest angle?

- A) 60° B) 75° C) 90° D) 120°

74. What is the average of the first 5 natural numbers?

- A) 2 B) 2.5 C) 3 D) 3.5

75. If $\sin\theta = \frac{2}{3}$ and θ is an acute angle, what is the value of $\cos\theta$?

- A) $\frac{2}{3}$ B) $\frac{2}{5}$ C) $\frac{1}{3}$ D) 0

76. If the circumference and area of a circle are equal in number, then what is the radius?

- A) 2 units B) 3 units C) 4 units D) 5 units

77. What is the next letter in the pattern?

A, D, H, M, S, ...

- A) Z B) Y C) X D) W

78. Fill in the blank:

AZ, BY, CX, ...

- A) DW B) EV C) FU D) GT

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79. If DELHI is written as EFMIJ, how will BOMBAY be written?

- A) CPNCBX B) CPNCBZ C) CPOCBZ D) CQOCBZ

80. If PALE=2134 and EARTH=41590, then PEARL= ?

- A) 29513 B) 24153 C) 25413 D) 24153

81. If ROSE=6821, then CHAIR= ?

- A) 73496 B) 73596 C) 73486 D) 73495

82. If SPIDER is written as PSDRIE, how will COMMON be written?

- A) OCMMNO B) COMMNO C) OCMMON D) OCMNOM

83. Pointing to a picture, Suresh said, "He is the son of my mother's only son." What is Suresh to that boy?

- A) Nephew B) Uncle C) Father D) Grandfather

84. A is B's brother. C is A's sister. D is E's brother. E is B's daughter. Who is D's uncle?

- A) A B) B C) C D) E

85. A man goes 5 km south, then turns right and goes 3 km. He turns left again and goes 5 km. In which direction is he now from the starting point?

- A) West B) South-West C) South-East D) North-West

86. Which of the following words cannot be formed using the letters of the word QUESTION?

- A) NOISE B) STONE C) NOTES D) TENT

87. A clock shows 6:50 a.m. How many degrees will the hour hand rotate when the clock shows 2:18 p.m.?

- A) 112° B) 248° C) 168° D) 224°

88. Which is the smallest ocean in the world?

- A) Indian Ocean B) Arctic Ocean C) Arctic Ocean D) Pacific Ocean

89. How many Union Territories are there in India in 2026?

- A) 6 B) 7 C) 8 D) 9

90. Which article of the Indian Constitution deals with the "Right to Equality"?

- A) Article 14 B) Article 19 C) Article 21 D) Article 32

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91. Where is the headquarters of the United Nations located?

- A) Geneva B) Paris C) New York D) London

92. Which river is known as the "Sorrow of Bihar"?

- A) Ganga B) Kosi C) Yamuna D) Son

93. What is the name of Japan's currency?

- A) Won B) Yuan C) Yen D) Ringgit

94. Who gave the slogan "Jai Jawan, Jai Kisan"?

- A) Indira Gandhi B) Lal Bahadur Shastri C) Jawaharlal Nehru D) Morarji Desai

95. What is the chemical formula for baking soda?

- A) NaCl B) Na₂CO₃ C) NaHCO₃ D) KOH

96. What is the study of earthquakes called?

- A) Meteorology B) Seismology C) Geology D) Oceanography

97. Where is the headquarters of UNESCO located?

- A) Geneva B) Paris C) Vienna D) Rome

98. Who proposed the theory of relativity?

- A) Isaac Newton B) Albert Einstein C) Galileo Galilei D) Max Planck

99. Which country is known as the "Land of Thousand Lakes"?

- A) Canada B) Finland C) Switzerland D) Norway

100. What is the name of Japan's currency?

- A) Won B) Yuan C) Yen D) Ringgit