

# MALAPPURAM SAHODAYA APTITUDE TEST

## MSAT FINAL ROUND 2015-16

Class: X

Date: 05.02.2015

Marks: 100

Reg. No.

Time : 2 Hrs

### **General Instructions:**

1. Candidate will be supplied with separate Question Paper and Answer Sheet.
2. Answer the questions in the OMR sheet by shading the appropriate bubble.
3. Shade the bubbles with black ball pen/HB pencil.
4. Each question carries one mark.
5. For each question below, four options are given. One of them is correct answer. Make your choice and shade the correct box.

**Read the passage given below and answer the questions that follow by choosing the correct options.**

Schools used to be all about writing. But it is not any more. Now it's all about typing. My six year old daughter is part of the first generation that is purely computer literate and I really didn't want her leaving copperplate writing. I could see that spelling, grammar, syntax and punctuation were important, but handwriting. By the time she is at university, handwriting may not be as relevant as needle point. So when my daughter came home last year with cursive handwriting home work, I was nonplussed. Cursive was originally developed to make it easier for children to write with a quill. Research suggests that the process of writing information down on paper, by hand, has a more direct effect on the formation of memories in the learning process than typing. There is nothing old fashioned about handwriting. Handwriting is where it is at.

1. According to the narrator his daughter is \_\_\_\_\_

- a) computer literate      b) illiterate      c) copper plate writer  
d) handwriting expert.

2. \_\_\_\_\_ was developed to make writing with a quill easier.

- a) Typing      b) Grammar      c) Cursive writing      d) Note making

3. Writing by hand is \_\_\_\_\_

- a) old fashioned    b) not old fashioned    c) of the future    d) not used today

4. What was the age of the narrator's daughter?

- a) 7 years                      b) 6 years                      c) 5 years                      d) 8 years

5. What was developed to make the writing easier?

- a) Pen                      b) Cursive writing                      c) Ink                      d) Ball pen

6. The word 'syntax' means.

- a) Orderly arrangement of sentences                      b) Sentences with errors  
c) Sentences without error                      d) None

**Rewrite choosing the correct option.**

7. Shruti Gupta and Rishu Sharma \_\_\_\_\_ their respective events in the Delhi State Aquatic Meet here on Wednesday.

- a) set new award for                      b) set new records for                      c) set new style for  
d) set new scope for

8. After our stay in Russia I returned with my son to visit my family \_\_\_\_\_ India.

- a) for                      b) in                      c) over                      d) on

9. His health has improved since he \_\_\_\_\_ Bombay.

- a) leaves                      b) leave                      c) left                      d) has left

10. Put out the lamp. (Change the voice)

- a) The lamp is put out                      b) The lamp will be put out  
c) Let the lamp be put out                      d) Let the lamp to put out

11. The news is too good to be true. (Rewriting using so ..... that ..... not)

- a) The news is so good that it cannot be true  
b) The news is so good that it is not true  
c) That is so good a news to be true                      d) None of these

12. He said to me, "Before I can give you my answer, I have to tell you a story."

(Change into indirect speech)

- a) He told me that before he can give me his answer, he had to tell me a story.  
b) He told me that before he could give me his answer, he had to tell me a story.  
c) He said to me that before I could give him my answer he had to tell me a story.  
d) He said that he had to tell a story.

13. No other fruit of India is as popular as the mango. (Change the degrees of comparison without changing the meaning)
- a) The mango is more popular than any other fruit of India
  - b) The mango is not the most popular fruit in India.
  - c) The popular fruit in India is not mango.
  - d) Other fruits of India are popular than mango.
14. How can you study Arabic? (Change in to passive)
- a) How Arabic can be studied by you?    b) How you can study Arabic?
  - c) How can Arabic be studied by you?    d) How Arabic be studied by you?
15. How fast time flies! (Remove the exclamation)
- a) Time flies faster than any other thing.                      b) Time is fast.
  - c) Time flies as fast as any other thing.                      d) Time flies very fast.
16. When did the United Nations adopt the guidelines for consumer protection?
- a) 1983                      b) 1984                      c) 1985                      d) 1986
17. I.S.I mark can be seen on which of the following items?
- a) Jewellery              b) Edible                      c) Electrical appliances                      d) Cereals
18. Which of the following neighboring countries has better performance in terms of human development than India?
- a) Bangladesh    b) Srilanka                      c) Nepal                      d) Pakistan
19. India is referred to as a 'super power' in the world in which one of the following is a non conventional source of energy?
- a) Solar energy    b) Wind power    c) Bio gas                      d) Tidal energy
20. Which one of the following is the main source of credit for rich urban households?
- a) Money Lenders              b) Business men                      c) Banks                      d) Self help group
21. Which one of the following countries has a two party system?
- a) United Kingdom    b) China    c) Indo- China    d) Japan
22. Which one of the following is a 'barrier' on foreign trade?
- a) Tax on import    b) Quality control    c) Sales Tax                      d) Tax in local trade

23. The Non-cooperation Movement began on which of the following dates?  
a) Jan. 1921      b) Nov. 1921      c) Dec. 1921      d) May 1921
24. Which among the following authorities issues currency notes?  
a) Govt. of India   b) The State Bank of India   c) Central bank   d) RBI
25. Political parties are allotted symbols by  
a) The Govt. of India   b) The Constitution of India   c) The party leaders  
d) The Election Commission
26. Who developed a mechanical device in the 17<sup>th</sup> century that could add, subtract, multiple, divide and find square roots?  
a) Napier      b) Babbage      c) Pascal      d) Leibniz
27. In IT Act 2000, which section deals with the punishment of Child Pornography?  
a) 66B      b) 67B      c) 66C      d) 67C
28. Who invented the microprocessor?  
a) Marcian E Huff      b) Herman H Goldstein  
c) Joseph Jacquard      d) Howard Aiken
29. Typical data transfer rates in LAN are of the order of  
a) Bits per sec   b) Kilo bits per sec   c) Mega bits per sec   d) Giga bits per sec
30. Surgeons can perform delicate operations by manipulating devices through computers instead of manually. This technology is known as  
a) Robotics      b) Computer forensics   c) Simulation   d) Forecasting
31. Which salt is added to cement so as to delay setting time of cement?  
a) Plaster of Paris      b) Gypsum   c) Bleaching Powder   d) Baking Soda
32. Aluminium foil is used for wrapping food because it is \_\_\_\_\_  
a) a ductile      b) malleable      c) a good conductor of heat   d) sonorous
33. You are given the solution of lead nitrate. In order to obtain a yellow precipitate you should mix with it a solution of \_\_\_\_\_  
a) potassium chloride   b) potassium nitride   c) potassium sulphide  
d) potassium iodide

34. An acid which can decolourise purple coloured potassium permanganate solution is \_\_\_\_\_  
a) sulphuric acid    b) citric acid    c) carbonic acid    d) hydrochloric acid
35. The energy currency of the cell is \_\_\_\_\_  
a) Glucose            b) Mitochondria    c) ATP                d) Cellulose
36. The potential difference across a  $3\Omega$  resistor is 6V. The current flowing in the resistor will be \_\_\_\_\_  
a)  $\frac{1}{2}$  A                b) 1A                c) 2A                d) 6A
37. When the diameter of a wire is doubled its resistance becomes \_\_\_\_\_  
a) double            b) half                c) one-fourth        d) four times
38. The frequency of a.c. (alternative current) supply in India is \_\_\_\_\_  
a) 0 Hz                b) 50 Hz                c) 60 Hz                d) 100 Hz
39. The magnetic field inside a long straight solenoid carrying current \_\_\_\_\_  
a) is zero            b) decreases as we move towards its end.  
c) increases as we move towards its end.        d) is the same at all points.
40. The human heart is protected by a membrane called \_\_\_\_\_  
a) Pleura            b) Pericardium    c) Skull                d) Meninges
41. The minister of state for environment, forests and climate change.  
a) Prakash Javedkhar            b) Mukthar Abbas Ali  
c) Sushma Swaraj                d) Najma Heptulla
42. The World Mental Health Day is observed on  
a) Oct. 2                b) Oct. 10                c) Oct. 24                d) Oct. 31
43. Principal advisor of Delhi Metro Rail Co-operation  
a) E. Sreedharan    b) Kiran Kumar    c) Kasthurirankan    d) Madvan Gadgil
44. Minister of Human Resource Development is related with  
a) Labour            b) Tourism            c) Welfare            d) Education
45. The organisation that won the Nobel Peace Prize 2015.  
a) National Dialogue Quarlet        b) ISRO            c) Green Belt Organisation  
d) IUCN

46. Which state is India's first Complete Digital State?

- a) Gujarat              b) Kerala              c) Tamil Nadu      d) Assam

47. India has won the UNESCO prize, "Award of Excellence" 2015 for the conservation efforts of which temple?

- a) Sree Vadakkunnathan Temple    b) Sun Temple of Konark  
c) Mookambika Temple              d) Sree Krishna Temple at Guruvayoor

48. Which state has recently won the Skoch Order of Merit National Award for implementing e-Governance and IT institutes in the state

- a) Bihar              b) Haryana              c) Jharkhand              d) Odisha

49. Which of the following cities has been decided to develop as spiritual capital by the Union Govt.?

- a) Varanasi              b) Tirupathi              c) Bodhgaya              d) Amritsar

50. Which international tennis player has recently been appointed as UNICEF Goodwill Ambassador?

- a) Novak Djokovic              b) Saina Nehwal              c) Leander Peas              d) Sania Mirza

51. Which of the following countries has built the world's deepest sailing and most silent nuclear submarine?

- a) USA              b) China              c) France              d) Russia

52. Who is the highest Law Officer in India?

- a) Attorney General              b) Advocate General              c) Solicitor General  
d) Chief Secretary

53. The Slogan "Aaram Haram Hai" is related to

- a) Jawaharlal Nehru              b) Gandhiji              c) Tagore              d) Tilak

54. What is the name of the mascot of the Olympics and Paralympics of Rio Olympics to be held in 2016?

- a) Atticus and John              b) Fortius and Ronaldo              c) Vinicius and Tom  
d) Citius and Rozario

55. Who is referred to as Mellisai Mannar or King of Light Music?  
a) Balamurali Krishna    b) M.S. Viswanathan    c) T.K. Ramamoorthy  
d) T.G. Lingappa
56. Where will India's first Defence Industrial Park be set up?  
a) Vijayawada    b) Ottapalam    c) Aluva    d) Kannur
57. Which is known as "Queen of Cereals"?  
a) Maize    b) Rice    c) Barley    d) Wheat
58. Which state was awarded the best e-panchayath state recently?  
a) Maharashtra    b) Assam    c) Himachal Pradesh    d) Karnataka
59. Which country has been ranked the World's Happiest Country according to the United Nations Sustainable Development recent report?  
a) Bhutan    b) Switzerland    c) Denmark    d) India
60. Indian army's aid to Nepal after the recent earthquake was named operation.  
a) Rakshak    b) Raahat    c) Maitri    d) Bhookamp
61. George Town is the capital of \_\_\_\_\_  
a) Ghana    b) Ivory Coast    c) Fiji    d) Guyana
62. While making the constitution of India, the idea of residual powers was borrowed from \_\_\_\_\_  
a) Ireland    b) South Africa    c) Canada    d) USA
63. Which Indian state's major river is the "Karnafuli"?  
a) Sikkim    b) Manipur    c) Mizoram    d) Assam
64. "A brief history of seven killings" is a book written by \_\_\_\_\_  
a) Arun Shourie    b) V.S. Naipaul    c) James Marlan    d) Aravind Adiga
65. Who won the Golden Glove of the football World Cup 2014?  
a) Messi    b) Ronaldo    c) Manuel Neuer    d) James Rodriguez
66. Currency of Argentina  
a) Ringgit    b) Shekel    c) Peso    d) Euro
67. Fountain Pen was invented by  
a) Rudolf Diesel    b) Charles Macintosh    c) Lewis C Waterman    d) Louis Cartier

68. Universal Declaration of human rights was passed by the UN General Assembly on

- a) 10.12.1948      b) 13.11.1947      c) 09.12.1948      d) 12.12.1948

69. "TRYSEM" is

- a) Training Rural Youth for Self Employment  
b) Training for Self Employment  
c) Training Youth for Self Employment  
d) Training Rural Youth for Employment

70. Prime Minister Narendra Modi on 31 August 2015 released digital recordings of epic

- a) Mahabharata    b) Ramayana      c) Ram charitmanas      d) Bhagavath Gita

71. If the zeroes of  $x^2 - Px - q$  be reciprocal of each other, then find the value of  $q$

- a) 1                      b) -1                      c) 2                      d) 0

72. In triangle PQR, E and F are points on the sides PQ and PR respectively, such that  $EF \parallel QR$ . If  $PE=6\text{cm}$ ,  $QE=2\text{cm}$  and  $FR=3\text{cm}$ . Find PF

- a) 3                      b) 6                      c) 9                      d) 12

73. Evaluate  $\sin 35^\circ / \cos 55^\circ$

- a) 0                      b) 1                      c)  $\tan 35^\circ$                       d)  $\tan 55^\circ$

74. The pair of linear equation  $6x - 7y = 1$  and  $3x - 4y = 5$  has

- a) Unique Solution    b) Two Solutions    c) Many Solutions    d) No Solution

75. A ladder is placed against a wall such that its foot is at a distance of 5m from the wall and its top reaches a window  $5\sqrt{3}\text{m}$  above the ground. Find the length of the ladder

- a) 5m                      b)  $5\sqrt{3}\text{m}$                       c) 10m                      d)  $10\sqrt{3}\text{m}$

76. A man undertakes to do a certain work in 150 days. He employs 200 workers. He discovers that only a quarter of the work is done in 50 days. In order to complete the work on schedule he must additionally employ \_\_\_\_\_ workers.

- a) 50                      b) 100                      c) 150                      d) 75



77. A class has 20 boys and 30 girls. The average age of boys is 11 years and of girls is 12 years. What is the average age of whole class?

- a) 12                      b) 11.6                      c) 11.2                      d) 10

78. When the time shown in a clock is 8.00am the minute hand is pointing towards North. In what direction is the hour hand pointing.

- a) South                      b) West                      c) South-West                      d) North

79. Manju ranked 14<sup>th</sup> from the top and 27<sup>th</sup> from the bottom among those who passed an examination. Six girls did not participate in the examination and five failed. How many students are in the class?

- a) 50                      b) 51                      c) 52                      d) 53

80. Two thirds of three fifths of one fourth of a number is 24. What is the 30 percent of that number?

- a) 42                      b) 90                      c) 72                      d) 69

81. 749 means "fruit is sweet", 248 means "very sweet voice", 637 means "eat fruit daily". Which is the digit stands for 'is' in that code?

- a) 7                      b) 9                      c) 4                      d) None of these

82. If  $A+B$  means 'A is the daughter of B',  $A-B$  means "A is the wife of B" and  $A \times B$  means "A is the brother of B". Which of the following denotes "P is the son of Q"?

- a)  $P \times R + Q$                       b)  $P \times Q + R$                       c)  $P + R - Q$                       d)  $P - R \times Q$

83. A person travels from P to Q at a speed of 40kmph and returns by increasing his speed by 50%. What is the average speed for both the trips?

- a) 36kmph                      b) 45kmph                      c) 50kmph                      d) 48kmph

84. Raju went 30 metres to the east, then he turned left and after walking 25 metres turned right and went 35 metres and then turned right and went 25 metres. How far Raju from the starting point?

- a) 55 metres                      b) 60 metres                      c) 65 metres                      d) 70 metres

85. Find the odd one out of the following

- a) 169                      b) 279                      c) 441                      d) 625

86. In a month three Fridays were an even dates. Then 21<sup>st</sup> of the month is  
a) Tuesday      b) Wednesday      c) Friday      d) Sunday
87. If 5 poles are erected at equal distance between two points 20 metres apart. What is the distance between any two poles?  
a) 2 metres      b) 3 metres      c) 4 metres      d) 5 metres
88. Four different bells ring at intervals of 5, 6, 8 and 10 minutes respectively. If they ring together at 4pm they will ring together again at  
a) 5.30pm      b) 6.00pm      c) 7.00pm      d) 8.10pm
89. 'Fan' is related to 'Wings' in the same way as 'Wheel' is related to  
a) Round      b) Cars      c) Moves      d) Spokes
90. Time in a clock is 8.25. What is the angle between hour hand and minute hand?  
a) 115°      b) 95°      c) 102.5°      d) 115.5°
91. Two trains 130 metres and 80 metres long are running in opposite direction are at the speed of 75km/hr and 33km/hr. From the movement they meet they will cross each other in  
a) 10 sec      b) 9 sec      c) 8 sec      d) 7 sec
92. In how many years a certain sum doubles itself at 4% per annum, simple interest.  
a) 5 years      b) 10 years      c) 20 years      d) 25 years
93. 3 chairs and 2 tables cost Rs. 700 and 5 chairs and 3 tables cost Rs. 1100. What is the cost of 2 chairs and 2 tables?  
a) 400      b) 500      c) 600      d) 900
94. In a class consisting 50 students, 10 play football but not hockey, 10 play hockey but not football and 15 play neither football nor hockey. Then the number of students playing both football and hockey are \_\_\_\_\_  
a) 10      b) 20      c) 15      d) 25
95. Arrange the following words according to dictionary arrangements.  
1. Surpass      2. Surmise      3. Surplus      4. Surname  
a) 1,2,3,4      b) 2,4,1,3      c) 3,2,1,4      d) 4,1,2,3

96. Six persons P, Q, R, S, T and U are sitting in a circle with their faces towards the centre. S is on the immediate left to T. P is opposite of U. Q is the immediate right of P. Who is sitting opposite of T?

- a) P                      b) Q                      c) R                      d) U

97. Pointing to a person Mini said that he is the only son of my father's mother's husband's wife. How is Mini related to that person?

- a) Sister                      b) Daughter                      c) Mother                      d) Daughter-in-law

98. If room is called 'bed'. Bed is called 'window', window is called 'flower' and flower is called 'cooler'. On what would a man sleep?

- a) Window                      b) Bed                      c) Flower                      d) Cooler

99. A's income is 25% more than that of B's. By how much percent is B's income less than that of A?

- a) 25                      b)  $33\frac{1}{3}$                       c) 20                      d) 30

100. The alphabet of English language is written in reverse order; what will be the fifth letter to the left of the sixteenth letter from the right?

- a) T                      b) U                      c) V                      d) W

**MALAPPURAM SAHODAYA APTITUDE TEST**  
**MSAT FINAL ROUND 2015-16**

Answer Key

Class: X

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