

# MALAPPURAM SAHODAYA APTITUDE TEST EXAMINATION 2016-17

Class: 10

Date:

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.

Fill up the appropriate words

1. As a general rule, politicians do not..... Centre stage  
a) Forward                      b) forbid                      c) forgive                      d) forsake
2. Reena could see her face.....in the water  
a) Softly                      b) Clearly                      c) Carefully                      d) Cleverly
3. Change into indirect speech  
Raju asked Ravi 'Have you seen a picture?'  
a) Raju asked Ravi whether he had seen a picture  
b) Raju asked Ravi whether he has seen a picture  
c) Raju asked Ravi whether he saw a picture  
d) Raju asked Ravi whether he see a picture
4. Give single word to the underlined sentence. A student in the second year of a course at a college or university  
a) Sophomore                      b) Alumni                      c) Truant                      d) Pedant
5. Correct the sentence:  
She agreed waiting for one more month  
a) She agreed to wait for one more month                      b) She agreed to waiting for one more month  
c) She agree to wait for one more month                      d) She is agreed to waiting for one more month
6. One among the following is not a synonym of the word 'colour'  
a) Hue                      b) nuance                      c) slush                      d) shade
7. Have another cup of coffee: use proper question tag  
a) Haven't you?                      b) have you                      c) Won't you?                      d) Don't you?
8. "In high spirits"; means  
a) Confused                      b) cheerful                      c) thoughtful                      d) sad
9. Find the portion where error occurs in the following sentence  
My elder brother (a) / and my sister (b) / helps me in (c) / doing my home work (d)

10. Find the word which is wrongly spelt  
 a) Courageous                      b) Encourage                      c) Vicious                      d) Majistrate
11. If the dogs bark; then sparrows  
 a) Scream                      b) talk                      c) twitter                      d) roar
12. Fill in the blanks by choosing correct alternative  
 ..... I spoke to his brother  
 a) He was not there                      b) If he is not there                      c) He will not be there                      d) As he was not there
13. The feminine gender of 'horse' is  
 a) Hart                      b) mare                      c) she horse                      d) stay
14. "being tired, he fell asleep". This sentence, when changed into compound form, becomes  
 a) As he was tired, he fell asleep                      b) He was tired and fell asleep  
 c) tiredness made him fall asleep                      d) when he was tired, he fell asleep
15. 'May God help you' . This is an ..... sentence  
 a) Assertive                      b) interrogative                      c) imperative                      d) Exclamatory
16. The government of India has approved "Himayath" a skill development initiative programme for the youth of which state?  
 a) Jammu and Kashmir                      b) Bihar                      c) Assam                      d) Gujrath
17. International Tiger day was observed on  
 a) July 26                      b) July 29                      c) August 3                      d) February 4
18. Lacchu Maharaj, who passed away recently, was associated with which musical instrument?  
 a) Sitar                      b) Shahanai                      c) Flute                      d) Tabla
19. Name the Indo-Thailand joint military exercise held recently  
 a) Matree                      b) SIMBEX                      c) Garuda                      d) Sakthi
20. What is the name of mascot of the 64<sup>th</sup> Nehru Trophy Boat Race, A cub elephant on a canoe.  
 a) Steempy                      b) Appu                      c) Kunjan                      d) Ammu
21. In India which railway station introduced free WI –FI system  
 a) Kolkatta railway station                      b) Mumbai railway station  
 c) Bangalore railway station                      d) Chennai railway station
22. Universal declaration of Human rights relates to the year.  
 a) 1945                      b) 1946                      c) 1947                      d) 1948
23. Which schedule in Indian constitution deals with the administration of scheduled areas and Scheduled Tribes  
 a) Schedule – 4                      b) Schedule – 5                      c) Schedule – 6                      d) Schedule - 7
24. HTTPS stands for  
 a) Hypertext Transfer Protocol Secure                      b) Hypertext Transport Protocol Security  
 c) Hypertext Transfer Per Second                      d) Hypertext Transfer Protocol Security
25. Operation "Sankat Mochan" was launched by the Indian Air Force to evacuate Indians from which country.  
 a) South Sudan                      b) Syria                      c) Libiya                      d) Turkey
26. Which city in Kerala got the clean city award instituted by the centre for Science and Environment  
 a) Cochin                      b) Alappuzha                      c) Thiruvananthapuram                      d) Kottayam

27. Where was India's first e-court inaugurated  
 a) Kolkatta                      b) Chennai                      c) Delhi                      d) Hyderabad
28. Name the first state to have a "Happiness Department"  
 a) Madhya Pradesh                      b) Karnataka                      c) Orissa                      d) Hariyana
29. Who is known as "The father of Neutron Bomb"  
 a) Samuel T.Cohen                      b) Openheimer                      c) Ottohaan                      d) Andersen
30. 'Hibi Method' is used for the farming of .....  
 a) Mollusca                      b) Pearl                      c) Seaweed                      d) Crabs
31. Which famous actress is the author of "The Great Indian Diet"  
 a) Silpa Shetty                      b) Priyanka Chopra                      c) Madhuri Dixit                      d) Juhi Chowla
32. The cricketer known as Navab of Najafgarh  
 a) Wasim Akram                      b) Shoaib Akthar                      c) Virendar Shewag                      d) M.S.Doni
33. The world's first electric road for heavy transport vehicle has been launched by which country.  
 a) Sweden                      b) Britain                      c) Russia                      d) China
34. In which country world's first three parent baby was born?  
 a) Mexico                      b) Brazil                      c) Cuba                      d) Canda
35. Who was sworn in as the prime minister of Australia?  
 a) Tnoy Abot                      b) Malcum Turnbull                      c) TerasaMay                      d) Tony Blair
36. Who got the first Jecce Ownes Olympic Spirit award posthumously?  
 a) Mohammed Ali                      b) Shimon Peres                      c) Bradman                      d) Hanse Krone
37. What is the national Motto of India  
 a) Bharath Matha Ki Jai                      b) Satyameva Jayathe                      c) Vende matharam                      d) JaiHind
38. LOTI is the currency of  
 a) Sudan                      b) Libya                      c) Burundi                      d) Lesotho
39. The most important tributary of the Indus passing through India  
 a) Jhelum                      b) Chenab                      c) Beas                      d) Sutlej
40. The author of the book entitled. "Wonder that was India".  
 a) A.L. Basham                      b) Jawaharlal Nehru                      c) Karl max                      d) Vincent D Smith
41. "Knot" is used for measuring  
 a) Speed of Rocket                      b) Speed of Aeroplane                      c) Speed of Ships                      d) Speed of Train
42. Point calimere is a wild life sanctuary situated in which Southern state of India.  
 a) Pondichery                      b) Tamil Nadu                      c) Kerala                      d) Karnataka
43. The blue colour of the sky is due to  
 a) Refraction of light                      b) Polarisation of light                      c) Reflection of light                      d) Scattering of light
44. Solar energy is received by the earth through  
 a) Radiation                      b) Conduction                      c) Convection                      d) Refraction
45. Name of the Taluk which is the border of two states  
 a) Palakkad                      b) Sulthan Batheri                      c) Neyyatinkara                      d) Mananthavadi

46. A man was engaged on a job for 40 days on the condition that he will get a wage of Rs.180 for the day he works, but he will have to pay a fine of Rs.20 for each day of his absence. If he gets Rs.5200 at the end, then he was absent for how many days?  
 a) 12 days                      b) 10 days                      c) 6 days                      d) 8 days
47. Excluding stoppages the speed of a bus is 54 kmph and including stoppages it is 36 kmph for how many minutes does the bus stop per hour  
 a) 20 min                      b) 25 min                      c) 30 min                      d) 18 min
48. At present Manorama is six times older than her son's age. Seven years hence the ration of their ages will be 11:3. What is Manoram's present age?  
 a) 42 years                      b) 54 years                      c) 48 years                      d) 36 years
49. Gaurav spends 40% of the amount he received from his father on hostel expenses, 20% on books and stationary and 50% of the remaining on transport. He saves Rs.450 which is the half of the remaining amount after spending on hostel expenses, books and transport. How much money did he get from his father?  
 a) Rs.3000                      b) Rs.6000                      c) Rs.4500                      d) Rs.5000
50. If X means  $\div$ , - means  $\times$ ,  $\div$  means + and + means -, then  $(3 - 15 \div 19) \times 8 + 6$   
 a) -1                      b) 2                      c) 4                      d) 8
51. From his house, Lokesh went 15 kms to the north. Then he turned west and covered 10 kms. Then he turned south and covered 5 kms. Finally turning to east, he covered 10 kms. In which direction is he from his house?  
 a) East                      b) West                      c) North                      d) South
52. What will come in place of question mark of the following number series  
 221, 437, 453, 578, 594 (?)  
 a) 658                      b) 605                      c) 603                      d) 641
53. 'D' is the son of 'J' who is son of F. 'p' is the daughter of 'R', if N is the sister of 'P' and daughter of 'J'. What is J's relation with 'R' ?  
 a) Daughter                      b) Son                      c) Wife                      d) Husband
54. In a certain code TRANSMISSION is written as RTANMSISION. How will COMMUNICASTIONS be written in the same code?  
 a) OCMMNUICTAIOSN                      b) OCMMUNCIATIONS  
 c) OCMMNUICTAINOS                      d) OCMMUNCITAISNO
55. If Tuesday falls on the fourth of the month then which day will fall three days after the 24<sup>th</sup>  
 a) Monday                      b) Tuesday                      c) Thursday                      d) Friday
56. Manju is 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 there in the class?  
 a) 50                      b) 51                      c) 52                      d) 53
57. The angle between the hour hand and minute hand of a clock at 4 pm is  
 a)  $90^{\circ}$                       b)  $120^{\circ}$                       c)  $240^{\circ}$                       d)  $150^{\circ}$
58. How much time does a train, 280m long, running at a speed of 72 km/hr take to cross a bridge of 220m long?  
 a) 25 seconds                      b) 30 seconds                      c) 35 seconds                      d) 60 seconds

59. 5 students are sitting in a row T is on the right of Z.M is on the left of Z but is on the right of L.T is on the left of Q. Who is sitting first from the left?  
a) Z                                      b) T                                      c) L                                      d) M
60. A frog fell into a well which was 30 feet deep. Every day the frog climbed up 3 feet and slipped back 2 feet every night. How long did he take to get to the top of the well?  
a) 28 days                                  b) 30 days                                  c) 27 days                                  d) 29 days
61. If 35000 Rs. Is divided among A,B and C in the ratio 1:2:4. What will be the share of B.  
a) Rs.8000                                  b) Rs.10000                                  c) Rs.9000                                  d) Rs.12000
62. The cost price of 12 mangoes is equal to the selling price of 10 mangoes. Find the gain or loss percentage?  
a) 10% Loss                                  b) 25% gain                                  c) 8% Loss                                  d) 20% gain
63. The HCF of two numbers is 81. Their LCM is 2835. If one number is 567, find the other number?  
a) 751    b) 405    c) 368    d) 495
64. In the following sequence of digits how many odd digits are immediately preceded and immediately followed by even digits?  
2 9 6 8 1 3 4 8 7 6 5 2 1 3 4 3 6 8  
a) 4    b) 3    c) 5    d) 6
65. A bus for Kottayam leaves every thirty minutes from a bus stand. An enquiry clerk told a passenger that the bus had already left ten minutes before and the next bus would leave at 9.35 am. After what time did the enquiry clerk give this information to the passenger?  
a) 9.15 am                                  b) 8.55 am                                  c) 9.05 am                                  d) 9.08 am
66. Rooftop rain water harvesting system in Rajasthan is known as  
a) Guls    b) Tankas    c) Johads    d) Baolis
67. On which river is the Bhakra Nangal dam located?  
a)Jhelum    b) Chambal    c) Satleg    d) Chenab
68. Which one of the following is a Rabi crop?  
a)Rice    b) Wheat    c) Millets    d) Cotton
69. If BMI is less than 18.5 then the person would be considered  
a) Over weight                                  b) Long height                                  c) Under nourished                                  d) Short height
70. A situation in which more persons are employed on a job than are optimally required  
a) Structural unemployment                                  b) Disguised unemployment  
a)Cyclical unemployment                                  d) Seasonal unemployment
71. Suffrage means  
a)The freedom of speech                                  b) Freedom from suffering  
c) The right to vote    d) The right to education
72. The pollutant caused by the combination of smoke and fog is called  
a) Cloudy fog                                  b) Smog    c) Dense fog    d) Smoking fog
73. Where was the first Indian Jute mill setup?  
a) Bengal    b) Bombay    c) Madras    d) Bihar

74. Which one of the following best explains calligraphy
- a) The art of painting                                      b) The art of map drawing  
c) The art of beautiful & stylised writing              d) The art of sketching
75. Which of the following countries was the earliest producer of printing materials?
- a) Persia                      b) India                      c) China                      d) Japan
76. The largest number which divides 70 and 125 leaving remainders 5 and 8 respectively
- a) 13                      b) 65                      c) 875                      d) 1750
77. If the polynomial  $x^4 - 2x^3 - 8x^2 + mx - 5$  is exactly divisible by  $x + 3$  then  $m$  is equal to
- a)  $\frac{-50}{3}$                       b)  $\frac{50}{3}$                       c)  $\frac{58}{3}$                       d)  $\frac{-58}{3}$
78. The age of a woman is four times than the age of her daughter. Five years hence, the age of the women will be three times the age of her daughter. The present age of daughter is
- a) 40 years                      b) 20 years                      c) 15 years                      d) 10 years
79. The sum of the digits of a two digit number is 12. If the number is decreased by 18, its digits get reversed. The number is
- a) 48                      b) 84                      c) 57                      d) 75
80. The areas of two similar triangles are  $81\text{cm}^2$  and  $49\text{cm}^2$  respectively. If an altitude of the smaller triangle is 3.5 cm then the corresponding altitude of the bigger triangle is
- a) 9cm                      b) 7 cm                      c) 6 cm                      d) 4.5 cm
81. If  $\sin \alpha = \frac{1}{2}$  and  $\cos \beta = \frac{1}{2}$  then the value of  $(\alpha + \beta)$  is
- a)  $0^\circ$                       b)  $30^\circ$                       c)  $60^\circ$                       d)  $90^\circ$
82. The value of  $3 \tan 40^\circ \tan 50^\circ$  is
- a)  $\frac{3}{2}$                       b) 3                      c) 1                      d) 0
83. The measure of central tendency of a statistical data which takes into account all the data is
- a) Mean                      b) Median                      c) Mode                      d) Range
84. If the classmarks of a continuous frequency distribution are 22, 30, 38, 46, 54, 62. Then the class corresponding to the class mark 46 is
- a) 41.5 – 49.5                      b) 42 – 50                      c) 41 – 49                      d) 41 -50
85. The value of  $\sin^2 5^\circ + \sin^2 10^\circ + \sin^2 15^\circ + \dots + \sin^2 90^\circ$  is equal to
- a) 8                      b) 8.5                      c) 9                      d) 9.5
86. The breakdown of pyruvate to give carbondioxide, water and energy takes place in
- a) Cytoplasm                      b) Mitochondria                      c) Chloroplast                      d) Nucleus
87. Name the hormone which is commonly termed “ Birth hormone” and milk ejecting hormone
- a) Oxytocin                      b) Vassopressin                      c) Thyroxine                      d) luteinising hormone
88. A duct coming from urinary bladder which carries sperms
- a) Vasdeferens                      b) Oviduct                      c) fallopian tube                      d) Urethra
89. The noble gas having only two electrons in its valence shell is
- a) Ar                      b) Ne                      c) He                      d) Kr
90. A metal which can be extracted from pyrolusite ore is
- a) Mercury                      b) Aluminum                      c) Manganese                      d) Manganese

91. The process of respiration is  
 a) An oxidation reaction which is endothermic      b) A reduction reaction which is exothermic  
 c) A combination reaction which is endothermic      d) An oxidation reaction which is exothermic
92. The property which is common between vinegar and curd is that they  
 a) Have sweet taste      b) Have better taste      c) Are tasteless      d) Have sour taste
93. The potential difference between a live wire and natural wire is  
 a) 230V      b) 220V      c) 240V      d) 210V
94. Solar cells are made of  
 a) Conductors      b) Insulators      c) Semiconductors      d) Superconductors
95. The minimum speed of wind necessary for the satisfactory working of a wind generator to produce electricity is  
 a) 15 km/hr      b) 25 km/hr      c) 35 km/hr      d) 45 km/hr
96. In IT act 2000, which section deals with cyber terrorism.  
 a) 66C      b) 44B      c) 60E      d) 66F
97. Which of the following can be used to store a large number of files in a small amount of storage space?  
 a) File adjustment      b) File reading      c) File compatibility      d) File compression
98. EPROM stands for  
 a) Erasable Programmable Read-Only Memory  
 b) Electronic Programmable Read-Only Memory  
 c) Extended Programmable Read-Only Memory  
 d) Electrical Programmable Read-Only Memory
99. An output device that uses words or messages recorded on a magnetic medium to produce audio response is.....  
 a) Magnetic tape      b) Voice response unit      c) Voice recognition unit      d) Voice band
100. BIOS stands for:-  
 a) basic input output system      b) Binary input output system  
 c) Basic input off system      d) basic instructions of system