

SAHODAYA SCHOOL COMPLEX KANNUR TALENT SEARCH EXAMINATION 20 22-23

Time : 120 minutes

Marks :100

General Instructions:

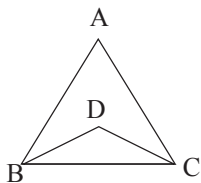
- Answer all questions
- Choose the most suitable answer and mark in the OMR Sheet.
- Each question carries one mark

1. My grand mother walks extremely slowly The 'adverb' extremely modifies
 (a) verb (b) noun (c) adverb (d) none of them
2. Which of the following sets of phenomina would increase, on raising the temeperature
 (a) Diffusion , Evaporation, Compresssion of gases
 (b) Evaporation, Compression of gases, Solubility
 (c) Evaporation, Diffusion, Expansion of gases
 (d) Evaporation, Solubility, Diffusion, Compression of gases
3. A rational number between $\sqrt{2}$ and $\sqrt{3}$ is
 (a) $\frac{\sqrt{2}+\sqrt{3}}{2}$ (b) $\frac{\sqrt{2}-\sqrt{3}}{2}$ (c) 1.5 (d) 1.8
4. 'Playing it my way' is the autobiography of
 (a) Sunil Gavaskar (b) Sachin Tendulkar (c) Viswanathan Anand (d) Neeraj Chopra
5. What does the phrase 'Utopian scheme' mean?
 (a) high thinking (b) great Plan
 (c) impracticable plan (d) none of these
6. The inertia of an object tends to cause the object
 (a) To increase its speed (b) To decrease its speed
 (c) To resist any change in its state of rest or motion
 (d) To decelerate due to friction
7. If $(2K-1, K)$ is a solution of the equation $10x-9y=12$, then $K=$ _____
 (a) 1 (b) 2 (c) 3 (d) 4

8. In which Indian state is 'Statue of Unity' situated ?
 (a) Maharashtra (b) Gujarat (c) Karnataka (d) Uttar Pradesh
9. I would fly, if I _____ wings
 (a) had (b) am having (c) has (d) have
10. Microscopic study of tissue is
 (a) Histology (b) Histochemistry (c) Molecular Biology (d) Cytology
11. Which of the following is the greatest?
 (a) 7^2 (b) $(49)^{3/2}$ (c) $(\frac{1}{343})^{-1/3}$ (d) $(2401)^{-1/4}$
12. Which of the following countries does not share a land boundary with India ?
 (a) Myanmar (b) Bangladesh
 (c) Bhutan (d) Thailand
13. Choose the correct meaning of the following proverb
 "A broken clock is right twice a day"
 (a) A New God will appear (b) The new era will start
 (c) Even a person who's not smart can sometimes be correct
 (d) None of these
14. Tincture of Iodine has antiseptic properties, this solution is made by dissolving
 (a) Iodine in Potassium iodide (b) Iodine in Vaseline
 (c) Iodine in Water (d) Iodine in alcohol
15. If $x^{51} + 51$ is divided by $x+1$, the remainder is
 (a) 0 (b) 1 (c) 49 (d) 50
16. 'National Youth Day' is observed on
 (a) 30 th January (b) 12th January (c) 5th September (d) 24th October
17. He did not _____ the test yesterday
 (a) wrote (b) writes (c) write (d) written
18. An object of mass 2kg is sliding with a constant velocity of 4 ms^{-1} on a friction less horizontal table, the force required to keep the object moving with the same velocity is
 (a) 32 N (b) 0 N (c) 2 N (d) 8 N
19. Value of $4\sqrt{(81)^{-2}}$ is
 (a) $1/9$ (b) $1/3$ (c) 9 (d) $1/81$

20. The author of the 'God of Small Things'
- (a) Kamala Das (b) Arundhati Roy (c) Indira Gandhi (d) O.V. Usha
21. Change into reported speech
- Renu said to me, "I was washing the clothes"
- (a) Renu told me she was washing the clothes
- (b) Renu told to me that she was washing the clothes
- (c) Renu told me that I was washing the clothes
- (d) Renu told me that she had been washing the clothes
22. Aerenchyma is a modification of
- (a) Parenchyma (b) Collenchyma (c) Sclerenchyma (d) Epiblema
23. If A, B, C and D are four angles of a quadrilateral such that $A = 2 < B$, $< B = 2 < C$, $< C = 2 < D$, then the value of $< D$ is
- (a) 36° (b) 24° (c) 30° (d) 90°
24. Who abolished slavery in America?
- (a) George Washington (b) Abraham Lincoln
- (c) Thomas Jefferson (d) George Bush
25. I _____ them since our school days
- (a) have known (b) had known (c) know (d) knew
26. Dry ice is
- (a) Water in the solid state
- (b) Water in the gaseous state
- (c) Carbondioxide in the solid state
- (d) Carbondioxide in the gaseous state
27. Two points having same abscissae but different ordinate lie on
- (a) x-axis (b) y -axis (c) a line parallel to y axis
- (d) a line parallel to x axis
28. The Land of Rising Sun
- (a) Norh Korea (b) Japan (c) Bhutan (d) Sweden

29. Our boss _____ our meeting until next week.
- (a) put of (b) put away (c) put off (d) put down
30. A cyclist moving on a circular track of radius 50m complete one revolution in 4 minutes. What is the average velocity in one full revolution?
- (a) 25 m/s (b) 0 m/s (c) 10 m/s (d) 30 m/s
31. In the given fig. If $AB = AC$ and $DB = DC$, then ratio of $\angle ABD$ to $\angle ACD$ is
- (a) 1:2 (b) 2:1 (c) 1:1 (d) 1:3



32. Who is known as the 'Mother of Indian Revolution' ?
- (a) Annie Besant (b) Indira Gandhi
- (c) Madame Bhikaji Cama (d) Sarojini Naidu
33. My programme was _____ yesterday
- (a) broadcast (b) broad casted
- (c) broadcasting (d) being broadcasted
34. Name the connective tissue which attaches bone to bone
- (a) Tendon (b) Ligament (c) Dendron (d) Cyton
35. Let $f(x)$ be a polynomial such that $f\left(\frac{-1}{2}\right) = 0$ then a factor of (x) is
- (a) $2x-1$ (b) $2x+1$ (c) $x-1$ (d) $x+1$
36. Vienna is the capital of
- (a) Australia (b) Austria (c) Switzerland (d) Russia
37. Identify the figure of speech
- She's older than this world
- (a) oxymoron (b) simile (c) hyperbole (d) metaphor
38. Select the non- metal form from the following
- (a) Gold (b) Diamond (c) Silver (d) Platinum
39. If the number $x = 1.2424.....$ is expressed in the simplest form $\frac{p}{q}$ then $p+q$ equals
- (a) 41 (b) 53 (c) 72 (d) 74

40. Former Japan Prime Minister who was assassinated recently?

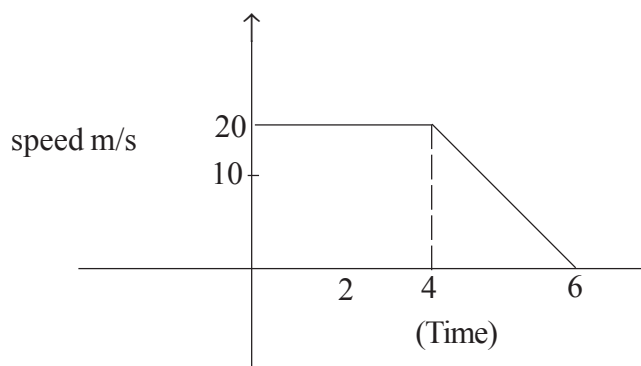
- (a) Fumia Kishida (b) Yoshihide Suga
(c) Shinzo Abe (d) Itaru Nakamura

41. _____ you like to go with me to the prom

- (a) Could (b) Would (c) Shall (d) May

42. The speed- time-graph of a body of mass 50kg is shown in the fig. Calculate tthe force acting on the body from 4 to 6 s

- (a) 500 N (b) -200 N (c) 100 N (d) -500 N



43. Name the first state to have its own internet service

- (a) Kerala (b) Karnataka (c) Maharashtra (d) Andhrapradesh

44. The Chinese restaurant is _____ hour walk from our school

- (a) a (b) the (c) an (d) none of these

45. _____ is a lateral meristem

- (a) Aerenchyma (b) Cambium (c) Apical Meristem (d) Phloem

46. Find the measure of an angle if seven times its compliment is 10° less than three times its supplement

- (a) 50° (b) 25° (c) 75° (d) 80°

47. The Head quarters of UNICEF

- (a) New York (b) Paris (c) Geneva (d) Rome

48. The phrase "A hard nut to crack" means

- (a) an interesting problem (b) a difficult problem
(c) a unique problem (d) a simple problem

49. If 5g of silver nitrate reacts with 3g of Sodium Chloride Solution, the mass of AgCl formed is 2g, the mass of Sodium Nitrate will be equal to
 (a) 5g (b) 3g (c) 8g (d) 6g
50. The product of $3 \times \sqrt{2} \times 4\sqrt{2} \times 12\sqrt{32}$ equals
 (a) $\sqrt{2}$ (b) 2 (c) $12\sqrt{2}$ (d) $12\sqrt{32}$
51. The first woman Chief of CSIR
 (a) Dr. M. Kalai Selvi (b) Tessy Thomas (c) Sunitha Williams (d) Kalpana Chawla
52. My teacher_____me to study well.
 (a) said (b) told (c) pleaded (d) advised
53. When two bodies move uniformly towards each other, the distance between them decreases by 8m/s. If both the bodies move in the same direction with the same speed, the distance between them increases by 4 m/s, what are the speeds of 2 bodies
 (a) 4,4 (b) 3,7 (c) 6,2 (d) 5,2
54. Which of the following rational numbers have terminating decimal?
 (i) 16/25 (ii) 5/18 (iii) 2/21 (iv) 7/250
 (a) (i) and (ii) (b) (ii) and (iii) (c) (i) and (iii) (d) (i) and (iv)
55. P.V. Sindhu belongs to which state?
 (a) Kerala (b) Telangana (c) Tamilnadu (d) Punjab
56. What is the time_____your watch?
 (a) on (b) by (c) with (d) in
57. Chromosomes are composed of
 (a) Proteins and water (b) Proteins and lipids
 (c) Proteins and DNA (d) Lipids and DNA
58. In an isosceles triangle, if the vertical angle is twice the sum of the base angles. Then the vertical angle is of measure
 (a) 130° (b) 100° (c) 120° (d) 110°
59. When was the Kargil war fought between the armies of India and Pakistan
 (a) 1961 (b) 1975 (c) 1999 (d) 2001
60. I_____ride a bicycle when I was four years old
 (a) would (b) can (c) could (d) might

61. What is the correct formula of Aluminium Sulphate
 (a) $\text{Al}_2(\text{SO}_4)_3$ (b) AIS (c) AlSO_4 (d) Al_2SO_4
62. If the graph of $2x + ky = 5$ passess through the point $(-2, 1)$, find k
 (a) 9 (b) -9 (c) $3/2$ (d) 1
63. The Chief Election Commissioner of India
 (a) Rajiv Kumar (b) Sushil Chandra (c) Sunil Arora (d) None of these
64. She should be ashamed_____her actions
 (a) by (b) at (c) of (d) in
65. Rocket works on the principle of conservation of
 (a) Momentum (b) Mass (c) Velocity (d) Energy
66. In the given fig PQRS is a rectangle. If $\angle \text{RPQ} = 30^\circ$, then the value of $x+y$
 (a) 90° (b) 120° (c) 150° (d) 180°
-
67. Which of the Union Minsitry launched ' New Frontiers' programme as a part of Azadi Ka Amrit Maholsav?
 (a) Ministry of Coal (b) Minstry of Human Resources
 (c) The Ministry of External Affairs
 (d) The Minsistry of New and Renewable Energy
68. The simplest rationising factor of $3\sqrt{500}$ is
 (a) $\sqrt{5}$ (b) 3 (c) $3\sqrt{5}$ (d) $3\sqrt{2}$
69. When I was in trouble, there was_____to help me
 (a) any one (b) no one (c) some one (d) all
70. Ribosomes are the centres of
 (a) Lipid Synthesis (b) Protein synthesis (c) Secretory functions (d) Glycogen synthesis

71. $\sqrt{2}$ is a polynomial of degree
 (a) 2 (b) 0 (c) 1 (d) $\frac{1}{2}$
72. The branch of medicine that specialises in the diagnosis and treatment of cancer is
 (a) Pathology (b) Dermatology (c) Oncology (d) Radiology
73. He _____ friends has come back
 (a) and his (b) or his (c) along with his (d) along with them
74. Name the type of colloidal solution formed when liquid is dispersed in a liquid
 (a) Aerosol (b) Emulsion (c) Gel (d) Foam
75. On plotting the points O (0,0), A (3,0), B(3,4), C(0,4) and joining OA, AB, BC and CO, which of the following figure is formed ?
 (a) Square (b) Rectangle (c) Trapezium (d) Rhombus
76. Who invented Penicillin ?
 (a) Rutherford (b) Michael Faraday
 (c) Alexander Fleming (d) James Chadwick
77. I _____ we should accept the offer
 (a) think (b) will think (c) should think (d) would think
78. A hockey ball of mass travelling from West to East at 10 m/s is struck by a hockey stick. As a result, the ball gets turned back and now has a speed of 5 m/s. If the ball and hockey stick were in contact for 0.25, calculate the ratio of rate of change of momentum of the ball
 (a) -11 kg m/s² (b) 11 kgms² (c) -15kgm/s² (d) 15kgm/s²
79. The smallest rational number by which $\frac{1}{3}$ should be multiplied so that its decimal expansion terminates after one place of decimal is
 (a) $\frac{1}{10}$ (b) $\frac{3}{10}$ (c) 3 (d) 30
80. Who is the father of 'Radio Science'?
 (a) C.V. Raman (b) J C Bose (c) Aryabhatta (d) Issac Newton
81. Ms. Smini teaches Mathematics _____ English
 (a) across (b) beside (c) besides (d) both
82. The point which lies on y axis at a distance of 5 units in the negative direction of y-axis is
 (a) (0, 5) (b) (5,0) (c) (0, -5) (d) (-5, 0)

83. Which is the longest dam in India?
 (a) Bakranangal dam (b) Idukki dam
 (c) Hirakkud dam (d) Mullapperiyar dam
84. I don't agree _____ your proposal.
 (a) with (b) for (c) to (d) in
85. In $\triangle ABC$, if $\angle A - \angle B = 15^\circ$, $\angle B - \angle C = 30^\circ$, then the values of $\angle A$, $\angle B$ and $\angle C$ are _____
 (a) $\angle A = 65^\circ$, $\angle B = 35^\circ$, $\angle C = 80^\circ$
 (b) $\angle A = 35^\circ$, $\angle B = 65^\circ$, $\angle C = 80^\circ$
 (c) $\angle A = 80^\circ$, $\angle B = 65^\circ$, $\angle C = 35^\circ$
 (d) $\angle C = 65^\circ$, $\angle B = 80^\circ$, $\angle C = 65^\circ$
86. In which state is Sathyamangalam Wild Life Sanctuary located ?
 (a) Telangana (b) Kerala (c) Jharkhand (d) Tamilnadu
87. The doctor gave me a _____ for some medicine yesterday
 (a) note (b) receipt (c) prescription (d) recipe
88. Which country won the first FIFA world Cup?
 (a) Brazil (b) Argentina (c) Uruguay (d) Columbia
89. I speak English but he _____
 (a) dosen't speaks (b) speaks
 (c) don't speak (d) dosen't speak
90. The present Prime Minister of Srilanka
 (a) Gotabya Rajapakse (b) Renil Wickremsinghe
 (c) Dinesh Gunavardene (d) None of these
91. He told me that he _____ watching the movie
 (a) had finished (b) was finished (c) have finished (d) is finished
92. Which is the largest Space telescope made by NASA and European Canadian Space agencies?
 (a) Hubble space telescope (b) James Webb Telescope
 (c) Spitzer space telescope (d) Large binocular telescope
93. The CEO of Microsoft
 (a) Sundar Pichai (b) Sathya Nadella (c) Mark Zuckerberg (d) Jeff Bezos

94. The currency of Japan
 (a) Yen (b) Rubil (c) Dinar (d) Dollar
95. The director of 'Titanic'
 (a) Sathyajith Ray (b) James Cameron
 (c) Stanley Kubrick (d) Steven Spielberg
96. Who took over the social media platform, Twitter recently?
 (a) Bill Gates (b) Tedors Adhanom
 (c) Elon Musk (d) Larry Page
97. In a certain code language
 '134' means 'nice and tasty'
 '478' means 'see nice movies'
 '729' means 'movies are bad'
 Which of the following digits stands for 'see'
 (a) 9 (b) 2 (c) 1 (d) 8
98. Ratio of Kavya's age to Teena's age is 4:3. Kavya will be 26 years old after 6 years. How old is Teena Now?
 (a) 18 Years (b) 21 years (b) 15 years (c) 24 years
99. What is the angle between the hour hand and the minutes hand at 5.30?
 (a) 10 degree (b) 15 degree (c) 20 degree (d) 25 degree
100. Consider the follwing statement
 (a) All flowers are books
 (b) Some gadgets are flowers
 c) All tablets are gadgets
 Conclusion : All tablets are books
 Some tablets are flowers
 Which of the following is correct with respect to the above statement and conclusions
 (a) Only conclusion I follows from the statements
 (b) Only conclusion II follows from the statements
 (c) Either conclusion I or conclusion II follows from the statements
 (d) Neither conclusion I or not conclusion II follows from the statements.