

SAT: 2022/NMMS (VIII)/MIZORAM

ROLL NO

BOOKLET NUMBER

MIZORAM SCHOLARSHIP BOARD
NATIONAL MEANS CUM MERIT SCHOLARSHIP EXAMINATION 2022

SCHOLASTIC APTITUDE TEST

Time allowed: One and half hours (90 minutes)

Maximum Marks: 90

INSTRUCTIONS TO CANDIDATES

1. Immediately after the commencement of the examination, you should check that this Booklet does not have any unprinted or torn or missing pages or items etc . If so, get it replaced by a complete Test Booklet.
2. Write your Roll Number in the box provided in the Answer Sheet.
3. Answers are to be given on a separate answer sheet.You have to mark all your response **ONLY** on the separate Answer Sheet provided .See direction in the Answer Sheet.
4. This Test Booklet contains 90 questions. Each item is printed in English Each item comprises **FOUR** responses (answers) .You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. All questions are compulsory . Every correct answer will be awarded one mark.
6. Rough work can be done anywhere in the test booklet but not on the Answer Sheet or Loose paper.
- 7.After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the invigilator only the **Answer Sheet** . You are permitted to take away with you the Test Booklet and rough sheets issued to you.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

1. The crops which are sown in the rainy season are called
 - a) Kharif Crops
 - b) Rabif Crops
 - c) Rabi Crops
 - d) None of these

2. An example of Rabi Crop is
 - a) Wheat
 - b) Paddy
 - c) Maize
 - d) None of these

3. Which one is plant parasite?
 - a) Algae
 - b) Fern
 - c) Doddar
 - d) Fungus

4. The supply of water to crops at different intervals is called?
 - a) Horticulture
 - b) Irrigation
 - c) Agriculture
 - d) None of these

5. Which of the following is carnivore?
 - a) Goat
 - b) Tiger
 - c) Sheep
 - d) Pig

6. The causative micro-organism of Malaria is
 - a) Protozoa
 - b) Bacteria
 - c) Virus
 - d) None of these

7. Digestion of animals is brought about by the action of
 - a) Chlorophyll
 - b) Enzymes
 - c) Pancreas
 - d) Saliva

8. The mode of transmission of TB is
 - a) Contact
 - b) Water
 - c) Air
 - d) None of these

9. The only metal which is found in liquid state is
 - a) Sodium
 - b) Potassium
 - c) Magnesium
 - d) Mercury

10. The earliest thermometer was developed by
 - a) Galileo
 - b) Isaac Newton
 - c) Albert Einstein
 - d) Alva Thomas Edison

11. The normal human body temperature is nearly
 - a) 34°C
 - b) 39°C
 - c) 37°C
 - d) 44°C

12. What is the percentage of Nitrogen gas in the atmosphere?
 - a) 78
 - b) 72
 - c) 81
 - d) None of these

13. In which year Nylon was prepared without using natural raw material?
 - a) 1941
 - b) 1912
 - c) 1931
 - d) None of these

14. Which of the following is acid?
 - a) NaCl
 - b) NaOH
 - c) HNO₃
 - d) H₂O

15. Which of the following is base?
 - a) NaCl
 - b) NaOH
 - c) HCl
 - d) H₂O₂

16. The approx time taken to degenerate by paper is?
 - a) 60-70 days
 - b) 40-50 days
 - c) 10-30 days
 - d) None of these

17. Salt is formed when
 - a) Metals react with oxygen
 - b) Metals react with acid
 - c) Metals react with water
 - d) None of the above

18. Which of the following is not an indicator?
 - a) Methyl orange
 - b) Phenolphthalein
 - c) Litmus
 - d) Digene

19. Black soil is rich in
 a) Iron b) Magnesium
 c) Both d) None
20. The property of metal by which it can be drawn into wires is called
 a) Feasibility b) Malleability
 c) Ductility d) None of above
21. Aerobic respiration takes place in the presence of
 a) Oxygen b) Nitrogen
 c) Carbon dioxide d) Hydrogen
22. Skin acts as organ of respiration in
 a) Dog b) Frog
 c) Human being d) Sheep
23. Blood groups were discovered by
 a) Newton b) Karl Landsteiner
 c) Darwin d) Alexander Fleming
24. Which component of blood helps in clotting?
 a) RBC b) WBC
 c) Platelets d) DNA
25. Yeast reproduces by
 a) Budding b) Pollination
 c) Spore formation d) Fission
26. A true fruit develops from
 a) Ovule b) Ovary
 c) Thalamus d) Seed
27. The SI unit of speed is
 a) m b) ms^2
 c) ms^{-2} d) ms^{-1}
28. The interval between two events is called
 a) Velocity b) Distance
 c) Time d) Speed
29. Sound cannot travel in
 a) Vacuum b) Gas
 c) Solid d) None of these
30. Good conductors have many loosely bound
 a) Atoms b) Molecules
 c) Protons d) Electrons
31. The safety device used for electrical appliances is
 a) Rheostat b) Fuse
 c) Resistance d) Connecting wire
32. A sudden shaking of earth is called
 a) Lightning b) Earthquake
 c) Thunderstorm d) None of above
33. How many dot patterns are there in Braille System?
 a) 63 b) 55
 c) 44 d) None of these
34. The stars forming a group that has recognizable shape is called
 a) Light year b) Milky way
 c) Constellation d) None of these
35. Which of the following is no longer considered as a planet in the Solar system?
 a) Pluto b) Jupiter
 c) Mercury d) None of these
36. The natural satellite to the earth is
 a) Moon b) Venus
 c) Mercury d) None of these
37. In which year, the Holy city of Jerusalem was conquered by the Turks?
 a) 1076 AD b) 1355 AD
 c) 576 BC d) 1471 AD

38. The Sun Temple is found at
 a) Agra b) Konark
 c) Sikandra d) Jodhpur
39. The capital of Rashtrakutas was
 a) Malkhed b) Ellora
 c) Kanauj d) Jodhpur
40. The greatest ruler of the Gujara-Pratihara dynasty was
 a) Mahendrapal b) Nagabhatta
 c) Krishna d) Gopala
41. How old was Akbar when he became the emperor?
 a) 13 yrs b) 20 yrs
 c) 17 yrs d) 23 yrs
42. When did Akbar conquer Bengal?
 a) 1714 b) 1576
 c) 1665 d) 1278
43. The last Mughal Emperor is
 a) Aurangzeb b) Shah Jahan
 c) Bahadur Shah d) Nadir Shah
44. The height of Qutab Minar is
 a) 77 metres b) 65 metres
 c) 725 metres d) 88 metres
45. Taj Mahal was constructed on the banks of river
 a) Yamuna b) Krishna
 c) Ganga d) Brahmaputra
46. Islamic faith was brought to India by
 a) Persia b) Arabs
 c) Turks d) None of above
47. Battle of Plassey took place in
 a) 1556 b) 1754
 c) 1757 d) 1781
48. The domain of water is referred to as
 a) Lithosphere b) Hydrosphere
 c) Troposphere d) Forestry
49. Green Mizoram Day is observed on
 a) 5th June b) 11th June
 c) 6th July d) 9th July
50. Which is not a natural ecosystem?
 a) Aquarium b) Forest
 c) Desert d) None of these
51. The radius of the Earth is
 a) 760 KM b) 6000 KM
 c) 9000 KM d) 4500 KM
52. The outermost layer of the Earth is
 a) Mantle b) Core
 c) Crust d) None of above
53. Molten materials in the interior of the Earth is called
 a) Magma b) Ore
 c) Mineral d) None of above
54. Oxbow lakes are found in
 a) River valleys b) Sea
 c) Glaciers d) None of these
55. Mushroom rocks are found in
 a) River Valleys b) Deserts
 c) Cliff d) None of these
56. Beaches are depositional features formed by
 a) Waves b) Glaciers
 c) Rivers d) Moving ice
57. The envelope of the air surrounding the Earth is called
 a) Lithosphere b) Atmosphere
 c) Troposphere d) Stratosphere

58. The percentage of oxygen gas in the atmosphere is

- a) 34%
- b) 21%
- c) 26%
- d) 19%

59. The normal pressure at sea level in mercury column is about

- a) 88 cm
- b) 76 cm
- c) 77 cm
- d) 87 cm

60. Imaginary lines joining places of same temperature is

- a) Isotherms
- b) Isobars
- c) Isotones
- d) None of above

61. The number of oceans on the Earth is

- a) 6
- b) 4
- c) 5
- d) 7

62. The oldest means of transportation is

- a) Train
- b) Roads
- c) Water
- d) None of above

63. The main cash crop of Ganga-Brahmaputra delta is

- a) Wheat
- b) Tobacco
- c) Jute
- d) Oil seeds

64. Royal Bengal Tigers are found in

- a) Amazon basin
- b) Nile delta
- c) Sundarban delta
- d) Sahara desert

65. Delhi is located on the banks of the river

- a) Kosi
- b) Hooghly
- c) Yamuna
- d) Gomti

66. The largest desert in the world is

- a) Thar desert
- b) Sahara desert
- c) Siberia desert
- d) Alaska desert

67. The State Council of Ministers is headed by

- a) Speaker
- b) Chief Minister
- c) Home Minister
- d) None of above

68. The number of Assembly Constituencies in Mizoram is

- a) 50
- b) 45
- c) 40
- d) 35

69. The Constitutional Head of the State is

- a) Governor
- b) Chief Minister
- c) Speaker
- d) Finance Minister

70. Find the sum of all odd numbers upto 100

- a) 3200
- b) 2100
- c) 2500
- d) None of these

71. What is the sum of all prime numbers from 11 to 50?

- a) 470
- b) 311
- c) 770
- d) None of these

72. How many prime numbers are contained in 23790?

- a) 5
- b) 6
- c) 7
- d) None of these

73. Find the value of 573×99

- a) 61698
- b) 71899
- c) 15781
- d) 56727

74. What should be added to 3.189 to get 7?

- a) 3.811
- b) 3.877
- c) 4.112
- d) 2.999

75. By how much is the sum of 14.28 and 11.219 greater than their difference?

- a) 20.977
- b) 22.438
- c) 21.879
- d) 19.011

76. Which of the following is the square root of 1521?

- a) 19
- b) 25
- c) 39
- d) 29

77. The value of 5^4 is

- a) 765
- b) 625
- c) 875
- d) 550

78. The sum of 13 and an unknown number is 46. What is the number?

- a) 34
- b) 33
- c) 23
- d) 36

79. 10% of a journey is 72 km. How long is the whole journey?

- a) 750 km
- b) 730 km
- c) 720 km
- d) 710 km

80. If 13 pens cost Rs 65, the cost of two dozen of pens will be?

- a) Rs 120
- b) Rs 135
- c) Rs 150
- d) Rs 145

81. In how many years will a sum of money double itself at 10% simple interest?

- a) 12 yrs
- b) 10 yrs
- c) 11 yrs
- d) 9 yrs

82. The cost of a transistor decreases from Rs 400 to Rs 380. What is the percentage of decrease?

- a) 5%
- b) 4%
- c) 7%
- d) 8%

83. Two angles are said to be complementary if the sum of their measures is equal to

- a) 80°
- b) 90°
- c) 70°
- d) 100°

RESERVED FOR ROUGH WORK