MAT: 2023/NMMS (VIII)/MIZORAM   ROLL NO.

BOOKLET NUMBER

MIZORAM SCHOLARSHIP BOARD
NATIONAL MEANS CUM MERIT SCHOLARSHIP EXAMINATION 2023

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. Meat eating animals are called
a) Carnivorous   b) Herbivorous
c) Parasites   d) None of these

2. Organisms which can prepare their own food are called
a) Autotrophs   b) Heterotrophs
c) Parasites   d) None of these

3. The process of obtaining and utilizing food is called
a) Photosynthesis   b) Digestion
c) Nutrition   d) None of these

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 average total number of teeth in adult is
a) 32   b) 34
c) 35   d) None of these

7. The longest part of digestive system is
a) Large intestine b) Small intestine
c) Pancreas   d) None of these

8. Substances which can conduct heat easily is called
a) Insulator   b) Corrosion
c) Conductor   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 art of rearing silk worm on a commercial scale is known as
a) Sericulture   b) Horticulture
c) Apiculture   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. Who developed the earliest thermometer?
a) Galileo   b) Isaac Newton
c) Edison   d) None of these

13. Which one is the most reactive metal?
a) Sodium   b) Calcium
c) Potassium   d) None of these

14. Which of the following is acid?
a) NaCl   b) NaOH
c) HNO_3 d) H_2O

15. The acid present in lemon and grape is?
a) Nitric acid   b) Hydrochloric acid
c) Citric acid   d) None of above

16. An instrument used to count heart beat is called
a) Endoscope   b) Colonoscopy
c) Stethoscope   d) None of these

17. Who discovered blood group?
a) Madam Curie   b) Karl Landsteiner
c) Albert Einstein d) None of the above

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

19. What is the standard unit of time?
a) Hour   b) Minute
c) Second   d) None of these

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. The moving of air is called
a) Wind   b) Rain
c) Pressure   d) None of these

22. Skin acts as organ of respiration in
a) Dog   b) Frog
c) Human being   d) Sheep

23. Which one of the following is not primary colour?
a) Green   b) White
c) Blue   d) Red

24. Which component of blood helps in clotting?
a) RBC   b) WBC
c) Platelets   d) DNA

25. Tobacco was first introduced in India in
a) 1600 AD   b) 1750 AD
c) 1550 AD   d) None of these

26. A true fruit develops from
a) Ovule   b) Ovary
c) Thalamus   d) Seed

27. Which one of the following is non-biodegradable?
a) Paper   b) Cotton cloth
c) Wood   d) Polythene

28. What is the SI unit of current?
a) Ohm   b) Coulomb
c) Ampere   d) None of these

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. The lowest temperature at which a substance catches fire is called
a) Absolute temperature
b) Ignition temperature
c) Ideal temperature d) None of above

33. At which age, boys reached their maximum height?
a) 18   b) 17
c) 16   d) None of these

34. At which age, girls reached their maximum height?
a) 16   b) 18
c) 17   d) None of these

35. How many dot patterns or characters are there in Braille System?
a) 63   b) 61
c) 65   d) None of these

36. Who was the first Mughal emperor?
a) Babar
b) Akbar
c) Aurangzeb
d) None of these

37. The present settlers in Mizoram entered between
a) 1400 -1700 AD
b) 1200-1300 AD
c) 1700-1800AD
d) None of these

38. The Sun Temple is found at
a) Agra
b) Konark
c) Sikandra
d) Jodhpur

39. In which year, the first English factory was set up on the banks of river Hooghly?
a) 1651
b) 1621
c) 1671
d) None of above

40. In which year, the first cotton mill was set up in Bombay?
a) 1814
b) 1854
c) 1840
d) None of these

41. How old was Akbar when became the emperor?
a) 13 yrs
b) 20 yrs
c) 17 yrs
d) 23 yrs

42. Which ruler first established his capital at Delhi?
a) Turkish
b) Rajputs
c) Khalji
d) None of these

43. The last Mughals Emperor was
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) 72.5 metres
d) 88 metres

45. Which one is the residence of Mughal emperor?
a) Red fort
b) Taj Mahal
c) Qutab Minar
d) None of above

46. Islamic faith was brought to India by
a) Persia
b) Arabs
c) Turks
d) None of above

47. In which year, Vasco da Gama reached Calicut?
a) 1456
b) 1554
c) 1498
d) None of these

48. The domain of water is referred to as
a) Lithosphere
b) Hydrosphere
c) Troposphere
d) Forestry

49. World Environment Day is observed on
a) 11th June
b) 5th June
c) 6th July
d) 9th July

50. The domain of water is referred to as?
a) Hydrosphere
b) Atmosphere
c) Lithosphere
d) None of these

51. The degree of hotness and coldness is called
a) Weather
b) Temperature
c) Climate
d) None of these

52. The outermost layer of the Earth is
a) Mantle
b) Core
c) Crust
d) None of above

53. Which of the following gases protects us from harmful sun rays?
a) Ozone
b) Nitrogen
c) Oxygen
d) None of above

54. Ox bow lakes are found in
a) River valleys   b) Sea
c) Glaciers   d) None of these

55. The process by which water continually changes its form and circulates between oceans, atmosphere and land is known as
a) Ecosystem   b) Water cycle
c) Tide cycle   d) None of these

56. The fastest way of transportation is
a) Airways   b) Railways
c) Roadways   d) None of above

57. Which type of road is constructed under the ground?
a) Expressways   b) Subways
c) Fly over   d) None of these

58. Kolkata is located on the river
a) Yamuna river   b) Hooghly
c) Brahmaputra   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. Kimberley is famous for
a) Diamonds   b) Silver
c) Gold   d) None of above

61. Petroleum and its derivatives are called
a) Black diamond   b) White Silver
c) Black Gold   d) None of these

62. Golden fibre refers to
a) Cotton   b) Jute
c) Rubber   d) None of above

63. Silicon valley is located in
a) Ahmedabad   b) Bangaluru
c) California   d) None of these

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. In which year, Mizoram University was established?
a) 1999   b) 2001
c) 2002   d) None of these

67. First census held in Mizoram is
a) 1911   b) 1901
c) 1921   d) None of above

68. The number of Assembly Constituencies in Mizoram is
a) 50   b) 45
c) 40   d) 35

69. The highest civilian award in India is
a) Bharat Ratna   b) Padma Vibhusan
c) Param Vir Chakra   d) None of these

70. Find the sum of all odd numbers upto 100
a) 3200   b) 2100
c) 2500   d) None of these

71. What is the smallest whole number?
a) 1   b) 0
c) 2   d) None of these

72. How many whole numbers are there between 32 and 53?
a) 21
b) 23
c) 20
d) None of these

73. How many diagonals does a triangle have?
a) 2
b) 1
c) 3
d) 0

74. What should be added to 3.189 to get 7?
a) 3.811
b) 3.877
c) 4.112
d) 2.999

75. What is the greatest prime number between 1 and 10?
a) 3
b) 7
c) 5
d) None of above

76. Which of the following is the square root of 1521?
a) 19
b) 25
c) 39
d) 29

77. What is the side of the square whose perimeter is 20 m?
a) 6 m
b) 5 m
c) 7 m
d) None of above

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. What is the square root of 6400?
a) 64
b) 60
c) 70
d) None of these

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°

84. An item marked at Rs 840 is sold for Rs 714. What is the discount percentage?
a) 15%
b) 10 %
c) 12%
d) None of above

85. The number of lines of symmetry can be drawn through the letter 'C' is
a) 0
b) 3
c) 2
d) 1

86. How many lines of symmetry are possible for hexagon?
a) 6
b) 5
c) 4
d) None of above

87. What is the circumference of the circle whose diameter is 28 cm?
a) 56 cm
b) 88 cm
c) 50 cm
d) 76 cm

88. 72% of 25 students are good in mathematics. How many students are not good in mathematics?

a) 4 students   b) 5 students

c) 6 students   d) None of above

89. What is the median in the following array?

7, 9, 11, 13, 15, 17, 19

a) 11   b) 13

c) 19   d) 17

90. The sum of angles in a square is

a) 360°   b) 130 °

c) 180 °   d) 90 °

SPACE FOR ROUGH WORK