

ATOMIC ENERGY CENTRAL SCHOOL – 2, MUMBAI

Academic Session 2023 – '24

Multiple Choice Questions Examination – 2 (31.07.2023)

Time: 180 minutes

Class 7

Marks: 120

Name:

Section:

Roll No.

SECTION A – MATHEMATICS

1. Which of the following is not the additive inverse of a?

- a) $a \times (-1)$ b) $-a$ c) $-(-a)$ d) $a \div (-1)$

2. $(-16) \div 4$ is not same as

- a) $-(16 \div 4)$ b) $16 \div (-4)$ c) $(-4) \div 16$ d) -4

3. The value of $5 \div (-1)$ does not lie between

- a) 0 and -10 b) -6 and 6 c) -4 and -15 d) 0 and 10

4. $(-43) \times (-99) + 43$ is equal to

- a) -4300 b) 4300 c) -4214 d) 4257

5. -35×107 is not same as

- a) $(-30 - 5) \times 107$ b) $(-35) \times 7 + (-35) \times 100$ c) $-35 \times 7 + 100$ d) $-35 \times (100 + 7)$

6. $-16 \div [8 \div (-2)]$ is equal to

- a) 4 b) -1 c) -4 d) 1

7. Find a number that is 3 more than -9 .

- a) 12 b) 6 c) 5 d) -6

8. _____ $\div (4) = -3$

- a) -12 b) 7 c) -7 d) 12

9. $(-11) \times 7$ is not equal to

- a) $-(11 \times 7)$ b) $7 \times (-11)$ c) $11 \times (-7)$ d) $(-11) \times (-7)$

10. A plane is flying at the height of 5000 m above the sea level. At a particular point, it is exactly above a submarine floating 1500 m below the sea level. What is the vertical distance between them?

- a) 6500 m b) 6000 m c) 3500 m d) 3000 m

11. The volume of a can of Pepsi is 0.33 liters. There are 12 cans in 1 carton. What is the volume of 5 cartons of Pepsi?

- a) 30 liters b) 21 litres c) 19.8 liters d) None of these

12. Find $(1/2) * (1/7) = ?$

- a) $\frac{1}{35}$ b) 0 c) $\frac{1}{14}$ d) none of these

13. $\frac{2}{3}$ of 15 is _____.

- a) 30 b) 10 c) 40 d) 20

14. Reciprocal of $\frac{5}{11}$ is _____.

- a) $\frac{5}{11}$ b) 11 c) 5 d) $\frac{11}{5}$

15. Which of the following has the largest value?

- a) $\frac{32}{0.05}$ b) $\frac{3.2}{0.05}$ c) $\frac{0.320}{50}$ d) $\frac{3.2}{50}$

16. Find: $22.5 \div 0.15 =$

- a) 5 b) None of these c) 15 d) 150

17. $\frac{3}{5}$ of 20 is _____

- a) 10 b) 15 c) 14 d) 12

18. Find: $28.9 \div 0.17 =$

- a) 170 b) 20 c) 16 d) 15

19. The mass of a jar of sugar is 1.9 kg. What is the total mass of 13 jars of sugar?

- a) 65 kg b) 28 kg c) None of these d) 24.7 kg

20. Find the product of 2240 and 0.25.

- a) 0.56 b) 5.6 c) 560 d) 56

21. Out of 5 brands of chocolates in a shop, a boy has to purchase the brand which is most liked by children. What measure of central tendency would be most appropriate if the data is provided to him?

- a) Median b) Mean c) All of these d) Mode

22. The range of the data - 9, 8, 4, 3, 2, 1, 6, 4, 8, 10, 12, 15, 4, 3 is

- a) 12 b) 14 c) 15 d) 10

23. The mean of first 10 natural numbers is

- a) $\frac{23}{2}$ b) $\frac{5}{2}$ c) $\frac{11}{2}$ d) 5

24. The median of the data : 3, 4, 5, 6, 7, 3, 4 is

- a) 4 b) 3 c) 6 d) 5

25. Find the median of the data set, which shows the weights (in pounds) of 10 students in Mr. Brij's class., 56, 60, 57, 62, 63, 63, 63, 58 and 73

- a) 65 b) 61.5 c) 63 d) 64

26. The heights (in inches) of 10 students in Mr. Tej's class are 64, 59, 63, 60, 65, 66, 66, 66, 61 and 76. Find the range of the heights of the students.

- a) 16 b) 14 c) 15 d) 17

27. The median of the data 40, 50, 99, 68, 98, 60, 94 is

- a) 60 b) 68 c) 40 d) 99

28. The mean of first five prime numbers is

- a) 7 b) 5.6 c) 3 d) 3.6

29. The mode of the data 23, 26, 22, 29, 23, 29, 26, 29, 22, 23 is

- a) 29 only b) 23 only c) 26 only d) 23 and 29

30. The difference between the highest and the lowest value of the observations in a data is called:

- a) Total frequency b) Sum of observation c) Mean d) Range

31. What is b in $\frac{x}{2} = 6$?
 a) 12 b) 8 c) 2 d) 4
32. If a and b are positive integers, then the solution of the equation $ax = b$ will always be a
 a) negative number b) 0 c) positive number d) 1
33. Which is a solution of the equation $4x - 3 = 13$?
 a) $x = 2$ b) $x = 4$ c) $x = 5$ d) $x = 3$
34. The solution of the equation $ax + b = 0$ is
 a) $-b$ b) $-\frac{b}{a}$ c) $-\frac{a}{b}$ d) none of these.
35. What is y in $10y - 20 = 50$?
 a) 5 b) 9 c) 7 d) 2
36. Write the equation for the sum of two times y and 10 is 42.
 a) $y + 10 = 42$ b) $y + 11 = 3$ c) $2y = 42$ d) $2y + 10 = 42$
37. Sachin scored twice as many runs as Rahul. Together, their runs fell two short of a double century. How many runs did each one score?
 a) Sachin: 66 runs, Rahul: 132 runs b) Sachin: 132 runs, Rahul: 66 runs
 c) Sachin: 136 runs, Rahul: 132 runs d) Sachin: 132 runs, Rahul: 132 runs
38. Solve: $2q + 6 = 12$
 a) $q = 6$ b) $q = 8$ c) $q = 3$ d) $q = 9$
39. What is x in $4x + 5 = 65$?
 a) 13 b) 16 c) 14 d) 15
40. Write the statements One fourth of m is 3 more than 7 in the form of equations:
 a) $4m + 7 = 3$ b) $\frac{1}{4}m - 3 = 7$ c) $\frac{1}{4}m + 7 = 3$ d) $4m + 3 = 7$.

SECTION B - SCIENCE

41. In the process of photosynthesis, the gas given out by green leaves is _____.
 a) Ozone b) Oxygen c) Carbon dioxide d) Nitrogen
42. Leaves of some plants are not green, either red or brown due to:
 a) Absence of chlorophyll b) Presence of lipids
 c) Presence of fats d) Presence of other pigments
43. Two organisms are good friends and live together. One provides shelter, water, and nutrients while the other prepares and provides food. Such an association of organisms is termed as
 a) Autotroph b) Parasite c) Symbiosis d) Saprophyte
44. Pitcher plants have green leaves that perform photosynthesis, then why does pitcher plant intake insects?
 a) To obtain readymade carbohydrates b) To obtain glucose
 c) To get protein d) To obtain nitrogen
45. The organism that can prepare their own food is called _____.
 a) Autotrophs b) Decomposers c) Consumers d) Heterotrophs
46. The tiny pores present in the leaves of the plants for exchange of gases are called

- a) Chloroplast b) Stomata c) Tracheae d) Spiracles
47. Which one is not an insectivorous plant?
 a) Venus flytrap b) Banana c) Drosera d) Bladderwort
48. Nitrogen is necessary for the formation of protein. From where do plants obtain nitrogen?
 a) From nitrogen gas dissolve in water b) From the soil in the form of nitrite and nitrate
 c) From air in form of gaseous nitrogen d) From soil in form of minerals
49. Which one is saprophytic organism?
 a) Mango b) Cuscuta c) Algae d) Mushroom
50. Which one of the following is a parasite?
 a) Cuscuta b) Lichen c) Rhizobium d) Pitcher Plant
51. What is the ultimate source of energy for all living organisms?
 a) Solar energy b) Wind energy c) Chemical energy d) Water energy
52. The green colour in plants is due to a pigment called _____.
 a) Protein b) Xanthophylls c) Hemoglobin d) Chlorophyll
53. Which of the following are also called the tearing teeth?
 a) Incisors b) Premolars c) Canines d) Molars
54. A total number of canines teeth in adult human beings are _____.
 a) 6 b) 2 c) 4 d) 8
55. Given below from (i) to (iv) are some food items.
1. Boiled and mashed potato
 2. Glucose solution
 3. A slice of bread
 4. Mustard oil
56. Which of the above will give blue - black colour when tested with iodine?
 a) (iii) and (iv) b) (ii) and (iii) c) (i) and (ii) d) (i) and (iii)
57. How is the stomach protected from the action of Hydrochloric acid?
 a) Pepsin inactivates the acid b) Mucus forms a protective layer
 c) Hydrochloric acid is a weak acid d) The inner wall of the stomach is acid - resistant.
58. The acid present in the stomach
 a) digests starch into simpler sugars. b) makes the medium alkaline.
 c) protects the stomach lining from harmful substances.
 d) kills the harmful bacteria that may enter along with the food.
59. Longest part of alimentary canal having highly coiled structure is _____.
 a) Large intestine b) Small intestine c) Oesophagus d) Stomach
60. Finger - like projection called villi is found in the inner wall of:
 a) Small intestine b) Large intestine c) Pharynx d) Rectum
61. Which of the following is not a digestive gland?

- a) Oesophagus b) Liver c) Salivary gland d) Pancreas

62. Which one is an herbivorous organism?

- a) Crow b) Cow c) Tiger d) Dog

63. The function of villi in the small intestine is to:

- a) Make the food slippery b) Release of the enzyme for digestion of food
c) Decrease the surface area for the slow movement of food
d) Increase the surface area for absorption of digested food

64. The false feet of Amoeba are used for

- a) capture of food only. b) movement only. c) exchange of gases only.
d) capture of food and movement.

65. The swallowed food moves downwards in the alimentary canal because of

- a) the flow of water taken with the food b) gravitational pull
c) force provided by the muscular tongue d) the contraction of muscles in the wall of food

66. Which of the following thermometers does not use mercury?

- a) Laboratory thermometer b) Clinical thermometer
c) Digital thermometer d) Fahrenheit thermometer

67. A wooden spoon is dipped in a cup of ice - cream, its other end:

- a) Does not become cold. b) Becomes cold by convection
c) Becomes cold by radiation d) Becomes cold by conduction

68. Which kind of clothes will you prefer most in summers?

- a) Thin clothes with white colour b) Thin clothes with black colour
c) Thick clothes with white colour d) Thick clothes with black colour

69. We should wash the thermometer before use with an antiseptic solution to:

- a) Make the number visible b) Remove the coating of moisture
c) Decrease the temperature d) Make it germ - free

70. In coastal areas, during night time the wind moves from:

- a) Land to sea b) Wind does blows in any direction
c) Winds move from lower to the higher atmosphere d) Sea to land

71. The heat of the sun reaches to earth by:

- a) Conduction b) Convection c) Through air d) Radiation

72. At night, the ground surface is cooler than the air over the ground therefore, heat is conducted from the:

- a) Ground to underground surface b) Ground to atmosphere
c) Atmosphere to the upper surface d) Atmosphere to the ground

73. Which of the following heat transfer takes place even in a vacuum?

- a) Conduction b) Latent heating c) Radiation d) Convection

74. Paheli and Boojho measured their body temperature. Paheli found her's to be 98.6° F and Boojho recorded 37° C. Which of the following statement is true?

- a) Paheli has a higher body temperature than Boojho b) Both are suffering from fever
 c) Paheli have lower body temperature than Boojho d) Both have normal body temperature
75. Heat flows from:
- a) Any direction b) Colder to a hotter region
 c) Heat does not flows d) Hotter to a colder region
76. The bottom of the stainless steel pan is made up of copper because:
- a) Copper is a better conductor b) Copper is easier to clean.
 c) Copper is more attractive d) Copper is more durable
77. Hotness and coldness are:
- a) Same as the colder object b) Same as the hotter object
 c) Same as surround d) Comparative to another object
78. Which of the following is an insulator?
- a) Copper rod b) Graphite c) Air d) Aluminium rod
79. One litre of water at 30°C is mixed with one litre of water at 50°C the temperature of the mixture will be:
- a) None of these b) More than 50°C c) More than 30°C d) Less than 30°C
80. The temperature of hot milk cannot be measured by clinical thermometer because:
- a) Clinical thermometer is used for body temperature only
 b) The clinical thermometer cannot be used for liquid.
 c) Hot milk has a temperature higher than the maximum range
 d) Hot milk temperature is less than the minimum range

SECTION C – SOCIAL SCIENCE

81. Who was al - aldrisi?
- a) Arab Cartographer b) American Cartographer
 c) French Cartographer d) German Cartographer
82. New foods and beverages arrived in the subcontinent were:
- a) potatoes, corn, chillies, tea, and coffee b) potatoes, corn, chillies, pulses and coffee
 c) potatoes, maize, chillies, maize, and wheat d) potatoes, pulses, chillies, cabbage, and coffee
83. _____ had the support of their patrons, who were new rulers and searching for prestige.
- a) Shudras b) Brahmins c) Jatis d) Ahoms
84. Prashasti means:
- a) in praise of People b) in praise of Farmer c) in praise of Saint d) in praise of King
85. _____ had knowledge of Sanskrit texts, which made them respectable in the society.
- a) Jatis b) Brahmins c) Ahoms d) Shudras
86. _____ framed their own rules and regulations to manage the conduct of their members.
- a) Ahom b) Kayastha c) Shudras d) Jatis

87. During the period 700 to 1750 new technologies made their appearance:

- a) Firearms in combat
- b) Persian wheel in irrigation
- c) Spinning wheel in weaving
- d) All of these

88. Why scribes copied manuscripts by hand?

- a) King banned the use of printing press
- b) It was costly to print the documents
- c) There was no printing press
- d) It was in fashion to write with hands

89. Tripartite struggle fought for control over

- a) Delhi
- b) Rajasthan
- c) Karnataka
- d) Kannauj

90. Chahamanas attempted to expand their control to the West and the east, where they were opposed by the Chalukyas of:

- a) Gujarat
- b) Tamil Nadu
- c) Delhi
- d) Ajmer

91. Many new dynasties emerged after the _____.

- a) fifth - century
- b) eighteenth - century
- c) seventh - century
- d) twelfth - century

92. Nagabhata was a _____.

- a) Palas King
- b) Chola King
- c) Chera King
- d) Pratihara King

93. In which language was the prashasti found in Gwalior written?

- a) Sanskrit
- b) French
- c) English
- d) Urdu

94. Name the Brahmanas who gave up their traditional professions and took to arms.

- a) Pratihara Mayurasharman and Gurjara
- b) Gurjara Mayurasharman and Kadamba - Pratihara Harichandra
- c) Kadamba Mayurasharman and Gurjara - Pratihara Harichandra
- d) Kadamba Mayurasharman and Meyura - Pratihara Harichandra

95. Ghazni raided the subcontinent almost every year - his targets were wealthy temples, including that of:

- a) Jagannath temple, Odisha
- b) Gangaikondacholapuram, Tamil Nadu
- c) Somnath, Gujarat
- d) Kandariya temple, Tamil Nadu

96. Hiranya - garbha was thought to lead to the "rebirth" of the sacrifice as:

- a) Brahmanas
- b) Kshatriya
- c) Vaishya
- d) Shudra

97. _____ provides the air we breathe, the water we drink, the food we eat, and the land where we live.

- a) Humans
- b) Climate
- c) Environment
- d) God

98. Family, health, education, and politics are:

- a) Abiotic resources
- b) Human - made resources
- c) Human resources
- d) Natural resources

99. NCC stands for

- a) National Camp Capital
- b) National Cadet Corps
- c) National Capital Corps
- d) National Cadet Candidate

100. The changes in the atmosphere produce changes in the:

- a) soil and climate
- b) weather and climate
- c) water and soil
- d) water and climate

101. Following describes the distribution of biosphere except:
1. It is made up of rocks and minerals and covered by a thin layer of soil
 2. It is a narrow zone of the earth which contain life
 3. There is contact between land, water, and air
 4. All plants and animals in the zone of contact between atmosphere and lithosphere
- a) Only D b) Only A c) Only C d) Only B
102. Which day is celebrated as the World Environment Day?
- a) 5th August b) 3rd June c) 2nd October d) 5th June
103. Landforms are found over:
- a) the continents and ocean floors b) the continents only
- c) the ocean floors only d) the continents and ocean
104. What makes the biosphere?
- a) Water kingdom only b) Animal kingdom only
- c) Plant and water kingdom d) Plant and animal kingdom
105. Igneous word is taken from _____.
- a) Spanish b) Latin c) Greek d) French
106. Greek word metamorphose means:
- a) Change of form b) Settle down c) Fire d) Damage
107. The innermost layer of the earth is
- a) Crust b) Mantle c) Sima d) Core
108. What happens when igneous and sedimentary rocks go under heat and pressure?
- a) They change into minerals b) They change into fossils
- c) They change into graphite d) They change into metamorphic rocks
109. It lies below the mantle and around the centre of the earth. What is it?
- a) Mantle b) Core c) Crust d) Fossils
110. The main mineral constituents of the continental mass called _____.
- a) sima b) nife c) sial d) cial
111. The rock which is made up of molten magma is
- a) Fossils b) Igneous c) Metamorphic d) Sedimentary
112. When the molten lava comes on the earth's surface, it rapidly cools down and becomes solid. Rocks formed in such a way on the crust are called:
- a) Intrusive igneous rocks b) Extrusive sedimentary rocks
- c) Metamorphic rocks d) Extrusive igneous rocks
113. This refers to the programme introduced in all government elementary schools to provide children with cooked lunch.
- a) Mid night meal scheme b) Mid day meal scheme
- c) Full meal scheme d) Exclusive meal scheme

114. Rosa Parks was tired from a long day at work she refused to give up her seat on a bus to a white man on _____.

- a) On 11 December 1965
- b) On 01 December 1945
- c) On 01 December 1955
- d) On 11 December 1975

115. Civil Right Act came in _____.

- a) 1963
- b) 1960
- c) 1962
- d) 1964

116. The two ways in which the government has tried to implement the equality that is _____.

- a) Law and Schemes
- b) Law and Protest
- c) Protest and Strikes
- d) Law and Strikes

117. Defiant act was _____.

- a) Not giving water to white
- b) Not working for white
- c) Not speaking to white
- d) Not giving up seat for white

118. Who was an African - American women who was an essential part of Civil Rights?

- a) Rose Perks
- b) Resa Porks
- c) Rosa Parks
- d) Rasa Paroks

119. _____ have been employed to cook the meal for school children in Mid day meal scheme.

- a) Educated women
- b) Educated men
- c) Dalit men
- d) Dalit women

120. Following provisions has been mentioned in our constitution except _____.

- a) No person can be discriminated against on the basis of their religion, race, caste, place of birth
- b) Every person is equal before the law
- c) Every person has access to all public
- d) Untouchability has not been abolished