NEWGEN SEARCH OLYMPIAD TALENT TEST

NEWGEN SCHOLARS - THE SCIENCE OLYMPIAD

Class: 6
Name: **Time:90mins**
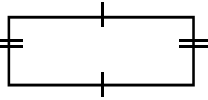
MATHEMATICS

I. Choose the correct answers :

1. 1 million = how many lakh ?
   (A) 10   (B) 100   (C) 1000   (D) 10000

2. The smallest number of the following numbers 1000, 50000, 111, 3222, 225 is
   (A) 111   (B) 225   (C) 1000   (D) 3222

3. 90 in roman numerals is
   (A) XL   (B) XC   (C) CX   (D) LX

4. 1km = ...mm ?
   (A) 10,00,000   (B) 1,00,000   (C) 10,000   (D) 1000

5. In Roman numerals L stands for
   (A) 100   (B) 50   (C) 70   (D) 90

6. In a triangle the centroid is the meeting point of the _____
   (A) Altitudes   (B) Angle bisectors
   (C) Medians   (D) Perpendicular bisectors

7. First triangular number is
   (A) 3   (B) 6   (C)10   (D) 15

8. The successor of 27 is
   (A) 26   (B)25   (C) 24   (D) 28

9. The predecessor of
   (A) 3   (B) 4   (C) 6   (D) 12

10. Which of the following numbers is not a factor of 36 ?
    (A) 101   (B) 100   (C) 99   (D) 8

11. 1 is _____ number
    (A) a prime number   (B) a composite number
    (C) neither prime nor composite   (D) an even number

12. The predecessor of 100 is
    (A) 101   (B) 100   (C) 99   (D) None of these

13. How many vertices are there in a triangle
    (A) 1   (B) 2   (C) 3   (D) 4

14. The common factor of 3,4 and 9 is
    (A) 1   (B) 3   (C)4   (D) 2

15. 1000 is divisible by
    (A) 10   (B) 6   (C) 3   (D) 11

16. The LCM of 5 and 6 is
    (A) 10   (B) 100   (C)30   (D) 60

17. There is a n umber whose double is greater than its half by 45. The number is _____
    (A) 60   (B) 25   (C) 45   (D) 30

18. The angle measure for half a revolution is
    (A) 90°   (B) 180°   (C)360°   (D) None of these

19. The Shape ◁ is of
    (A) Cone   (B) Cylinder   (C) Cuboid   (D) Sphere

20. $(-1) + ? = -2$
    (A) 1   (B)-1   (C) 0   (D) 2

21. $(-4) + (+3) = ?$
    (A) -1   (B) 1   (C) 0   (D) +2

22. In series 1,3,7,15, ... What is the next term?
    (A) 28   (B) 29   (C) 30   (D) 31

23. $\dfrac{2}{10} - \dfrac{3}{10} = \ldots$

    (A) $\dfrac{1}{2}$ (B) $\dfrac{1}{5}$ (C) $\dfrac{1}{10}$ (D) None of these

24. $\dfrac{0}{1} + \dfrac{1}{0} =$

    (A) $\dfrac{1}{2}$ (B) $\dfrac{1}{5}$ (C) $\dfrac{1}{10}$ (D) None of these

25. What fraction of a day is 12 hours.

    (A) $\dfrac{1}{3}$ (B) $\dfrac{1}{4}$ (C) $\dfrac{1}{2}$ (D) $\dfrac{1}{6}$

26. $\dfrac{1}{3} + \dfrac{1}{3} + \dfrac{1}{3} \ldots$

    (A) 1   (B) 2   (C) 3   (D) 4

27. $\ldots\ldots\ldots + \dfrac{-1}{4} = \dfrac{1}{4}$

    (A) $\dfrac{1}{4}$ (B) $\dfrac{1}{2}$ (C) $\dfrac{3}{4}$ (D) $\dfrac{5}{4}$

28. $111 + \dfrac{1}{100} =$

    (A) 111.01   (B) 111.1   (C) 111.001   (D) 111.0001

29. Area of square=........
    (A) side x side   (B) 4 x length   (C) 2xlength   (D) 6xlength

30. Solve r+5 = 5
    (A) 0   (B) 1   (C) 5   (D) -5

31. $0.625 =$

    (A) $\dfrac{1}{8}$ (B) $\dfrac{2}{8}$ (C) $\dfrac{3}{8}$ (D) $\dfrac{5}{8}$

32. 5kg.5g

    (A) 5.005kg   (B) 5.05kg   (C) 5.5kg   (D) 0.55kg

33. $2\dfrac{1}{10}$

    (A) 2.1   (B) 2.01   (C) 2.001   (D) 2.0002

34. Perimeter of a rectangle
    (A) lb   (B) l + b   (C) 2(+b)   (D) None

35. Solve $\dfrac{l}{2} + 5 = 7$

    (A) 1   (B) 2   (C) 3   (D) 4

36. The expression for p divided by 2 is
    (A) $\dfrac{p}{2}$ (B) 2p   (C) p+2   (D) p - 2

37. The ratio 40cm to 1 meter is
    (A) 2:5   (B) 3:5   (C) 4:5   (D) 5:2

38. The perimeter of a regular hexagon _____
    (A) 3 a   (B) 4 a   (C) 5 a   (D) 6 a

39. $10 + 2 + \dfrac{1}{10} + \dfrac{2}{100} =$

    (A) 12.12   (B) 12.21   (C) 11.11   (D) 21.12

40. Which of the following is an equation in a variable ?
    (A) 2<10   (B) 3>12   (C) x - 1=0   (D) 2+3 = 3+2

41. The expression for 1 added to 2p is
    (A) 2p+1   (B) 2p-1   (C) 1-2p   (D) p-2
42. Which of the following ratio is equivalent to 2:3
    (A) 4:8   (B) 4:9   (C) 6:9   (D) 6:12
43. The cost of 10 note books is Rs. 100. The cost of 15note books ..
    (A) 10   (B) 100   (C) 150   (D) 250
44. How many lines of symmetry does the figure have ?
    (A) 1   (B) 2   (C) 3   (D) 4
45. How many pairs of adjacent angles are there in a quadrilateral ?
    (A) 1   (B) 2   (C) 3   (D) 4
46. Each angle in square measures? _____ degrees.
    A) 45   B) 60   C) 90   D) 180
47. Which of the following will not represent zero ?
    (A) 0+1   (B) 0x0   (C) $\dfrac{0}{2}$ (D) $\dfrac{2-2}{2}$
48. The difference between the predecessor of a number and the number itself is
    (A) 1   (B) -1   (C) 2   (D) -2
49. The average of 5 numbers A,B,C,D and E is K. When we subtract L from each, the new average __
    (A) A-L   (B) E-L   (C) K-L   (D) K+L
50. What is the value of pi? _____
    (A) 4.15   (B) 3.14   (C) 4.05   (D) 3.05

GENERAL SCIENCE

51. The organism present in human intestine _____
    A) Luch   B) Earth worm   C) Tape worm   D) None
52. Among the following, which does not dissolve in water ___
    A) Chalk powder   B) Salt   C) Sugar   D) Saw dust
53. The leopard is member of the _____ family
    A) Dog   B) Herbivore   C) cat   D) Bird
54. In very cold conditions, big water drops solidify into ice and fall as pieces of ice known as _____
    A) Rain   B) Hailstone   C) Snow   D) Dew
55. An example for magnetic material _____
    A) Wood   B) Plastic   C) Iron nail   D) Paper
56. Sweet potatoes are an excellent source of _____
    A) Fats   B) Carotenoidl   C) Vitamins   D) Minerals
57. Jams are preserved by adding _____
    A) Water   B) Sugar   C) Salt   D) Oil
58. When a magnet is broken every piece is a _____
    A) Electro magnet   B) Magnet   C) Artificial magnet   D) Horse magnet
59. _____ are formed from tiny droplets of water vapour
    A) Ice   B) Dew   C) Snow   D) Hail stones
60. The butterfly uses _____ to suck from flowers
    A) Mouth   B) Sucker   C) Nose   D) None
61. Example of herbivore animal _____
    A) Tiger   B) Bear   C) Cat   D) Buffalo
62. Wooden door is an example of _____
    A) Transparent   B) Translucent   C) Opaque   D) None
63. Mountain provide habitat for a wide range of ___ animals
    A) Water   B) Terristrial   C) Domestic   D) None
64. ____ is used to remove impurities from water
    A) Distillation   B) Sedimenttion   C) Decantation   D) None
65. Husk is separated from grain by the process of ____
    A) Seiving   B) Winnoing   C) Sedimentation   D) Hand picking
66. Making fabric from cotton yarn is called ____
    A) Ginning   B) Treading   C) Weaving   D) Spinning
67. Parallel venation is observed in _____
    A) Sugar cane   B) Neem   C) Peepal   D) Lemon
68. Beating of heart is an example of ____
    A) Fast change   B) Undesirable change   C) Slow change   D) Man-made change

69. _____ are natural disastere that affect human lift
   A) Drought   B) Rain   C) Floods   D) None
70. The element in a bulb which give us light is _____
   A) Filament   B) Glass chamber   C) Base   D) Terminals
71. Electricity requires a _____ for it to flow
   A) Switch   B) Bulb   C) Conductor   D) Insulator
72. Length of a curved line can be measured by using _____
   A) Thread   B) Graph paper   C) Measuring cylinder D) None
73. _____ is the standard unit of length
   A) Km   B) Litre   C) Meter   D) None
74. The joint between wrist and the carpel is _____
   A) Ball and socket B) Neck   C) Hinge   D) Gliding joint
75. We can see objects with our eyes due to the phenomenon of __
   A) Diffraction   B) Refraction   C) Reformation   D) Reflection
76. Which of the following character is different from human and
   plants? _____
   A) Responce to stimulus B) Growth   C) Movement   D) Excretion
77. From which part of plant, excretion takes place _____
   A) Roots   B) Leaves   C) Stem   D) Flower
78. Ingredients of jilebi _____
   A) Maida   B) Jaggery   C) Oil   D) All
79. Lodestone is an example of _____
   A) Natural magnet   B) Electro magnet   C) Artificial magnet D) None
80. Like poles of magnet _____ each other
   A) Attract   B) repel   C) Neither attract nor repel D) None
81. The process of water changing into water vapour is called ___
   A) Melting point   B) Condensation   C) Evaporation   D) None
82. In our state rains occur normally from _____
   A) October-December B) June-September   C) March-May   D) May-July
83. _____ are called natural scavengers.
   A) Cranes   B) Woodpeckers   C) Crows   D) Parrots
84. Flesh eating animals are called _____
   A) Herbivores   B) Ruminates   C) Omnivores   D) Carnivores
85. The materials which allow the light to pass are known as.
   A) Opaques   B) Translucent   C) Transparent   D) None
86. Which is made up of only one material among all _____
   A) Cycle   B) T.V   C) Plastic chair   D) Bulb
87. Example for aquatic animal _____
   A) Tiger   B) Pigeon   C) Crab   D) Snake
88. Salt is produced by sea water by the process of _____
   A) Sedimentation   B) Evaporation   C) Decantation   D) None
89. The process of separation of mud and sand is called _____
   A) Filtration   B) Distillation   C) Sedimentation   D) None
90. Jute fibre is also called _____
   A) Nylon   B) Silk   C) Golden fibre   D) Woollen
91. Warangal is famous for _____ industry
   A) Cotton   B) Jute   C) Carpet   D) none
92. Cotton plants are cultivated in _____
   A) Sandy soil   B) Clay soil   C) Black soil   D) Red soil
93. The flat green portion of the leaf is called _____
   A) Veins   B) Midrib   C) Lamina   D) Petiole
94. The water released in the form of vapour is called _____
   A) Photosynthesis   B) Respiration   C) Transpiration   D) None
95. _____ is the mechanical and chemical breakdown of food
   A) Condensation   B) Photosynthesis   C) Digestion   D) None
96. Which of the following is not a natural change
   A) Ripening of fruits B) Rusting of iron C) Change in seasons D) Burning of wood
97. The nature of sea water is _____
   A) Salty   B) Tasteless   C) Sweet   D) Odourless
98. Flourosis affeeted district among the following
   A) Krishna   B) Khammam   C) Warangal   D) Nalgonda
99. Who invented electric bulb?
   A) Einstien   B) Faraday   C) Franklin   D) Thomas Alva Edison
100. The appropriate unit for measuring thickness of coin is _____
   A) Micrometer   B) Millimeter   C) Kilometer   D) Centimeter