66. Blue revolution is related to
    A. Egg   B. Sea   C. Sky   D. Fish
67. The carriers of heredity
    A. Cytoplasm   B. Human   C. Chromosomes   D. Nucleus
68. Who is the Father of Homeopathy?
    A. Hypocratus   B. Susruthan   C. Samuel Hanniman   D. Dhanwanthari
69. The kinetic energy of a body depends upon its
    A. Thickness   B. Length   C. Volume   D. Mass
70. Melting of ice exemplifies
    A. Physical change   B. Chemical change   C. Oxidation   D. Reduction
71. What are the main constituents of soft glass?
    A. Lime, sand and soda   B. Lime, sand and clay   C. Lime and soda   D. Lime and clay
72. Which is the hottest planet of our solar system?
    A. Venus   B. Mercury   C. Mars   D. Earth
73. The formation of rainbow is due to
    A. Diffraction of light   B. Reflection of light   C. Dispersion of light   D. Interference of light
74. Which metal is most malleable?
    A. Copper   B. Gold   C. Silver   D. Zinc
75. Which one of the following is not a rabi-crop?
    A. Wheat   B. Barley   C. Mustard   D. Maize
76. Who is popularly known as 'Lok Nayak'?
    A. Lala Lajpat Rai   B. Balgangadhar Tilak   C. Jay Prakash Narayan   D. Vinoba Bhave
77. Telescope is used for seeing
    A. Distant object   B. Near objects   C. Small objects   D. Cells
78. The energy of food is measured in
    A. Kelvin   B. Calorie   C. Erg   D. Bushel
79. The period of pendulum depends up on
    A. Mass   B. Length   C. Amplitude   D. Energy
80. 1 nano metre = _____.
    A. 10^{-7} m   B. 10^{-9} m   C. 10^{9} m   D. 10^{7} m

Choose the correct answer from right side (Questions 81-90).   (10x2=20)

81. $\left(\dfrac{1}{64}\right)^{-5/6}$ -   A. March 14

82. Nagaland   -   B. Kg

83. Artha Sastra   -   C. Newton

84. 'Pie day'   -   D. Kohima

85. Meghalaya   -   E. Kautilya

86. $1 + \dfrac{1}{1 + \dfrac{1}{1 + \dfrac{1}{9}}}$ -   F. June 21

87. Mass   -   G. 32

88. Ramayana   -   H. Shillong

89. Weight   -   I. $\dfrac{29}{19}$

90. International day of Yoga   -   J. Valmiki

ACE 2015
Ascent Competitive Exam

zest EDUCARE

STD : IX

SET - I

QUESTION PAPER

Time : 90 minutes
Max.Marks : 100

Reg. No:

Choose the correct answer and darken the bubble corresponding to the question number   (80x1=80)

1. Atoms of different elements with same mass number but different atomic number are known as
    A. Isotopes   B. Isobars   C. Isomerism   D. Ozones
2. Mass per unit volume of a substance is called _____
    A. Pressure   B. Thrust   C. Density   D. Gravity
3. Copa America football tournament 2015 was held in
    A. Brazil   B. Germany   C. Chile   D. Argentena
4. The unit of frequency is
    A. Second   B. Hertz   C. ms^{-1} D. Pascal
5. World AIDS day is celebrated on
    A. January 1   B. December 1   C. March 15   D. July 15
6. Pneumonia targets at
    A. Heart   B. Lungs   C. Brain   D. Liver
7. What is Quick Silver?
    A. Platinum   B. Mercury   C. Diamond   D. None of these
8. The number of bones present in a normal adult human being
    A. 206   B. 602   C. 306   D. 256
9. The dry ice is
    A. Methane   B. Solid Carbon dioxide   C. Nitrous oxide   D. None of these
10. 36 km/hr = _____ m/s.
    A. 15   B. 10   C. 18   D. 20
11. Myopia is due to
    A. elongation of the eyeball   B. irregular change in focal length
    C. shortening of eyeball   D. older age
12. In summer, the clocks.
    A. become slow   B. become fast   C. give correct time   D. lose time
13. The smallest and lightest bone in the human body
    A. Nasal bone   B. Incus   C. Mandible   D. Stapes
14. The unit of acceleration is
    A. m/s   B. m/s^2 C. km/hr   D. m^2s
15. Right to Education Comes under the Act
    A. 44   B. 46   C. 21   D. 21 A
16. Identify one disease caused by bacteria
    A. Cholera   B. Polio   C. Anthrax   D. Dengue fever
17. The discovery of electron is made by
    A. Goldstein   B. Chadwick   C. J.J Thomson   D. Bohr
18. A clot of blood contains
    A. Prothrombin   B. Fibrinogen   C. Fibrin   D. Thrombin
19. Which is a primary Consumer ?
    A. Scavenger   B. Saprophyte   C. Carnivore   D. Herbivore

20. Rocket works on the principle of conservation of
    A. Mass   B. Energy   C. Velocity   D. Momentum
21. The reminder when x^3+3x^2+3x+1 is divided by x
    A. 0   B. x   C. 1   D. 2
22. The rational number lying between $\frac{5}{6}$ and $\frac{6}{7}$

    A. $\frac{71}{84}$ B. $\frac{3}{2}$ C. $\frac{7}{5}$ D. All these
23. The decimal number 0.666........ is almost equal to the fraction

    A. $\frac{1}{6}$ B. $\frac{2}{3}$ C. $\frac{1}{3}$ D. $\frac{5}{6}$
24. $125^{-1/3} =$ _____

    A. 25   B. $\frac{1}{25}$ C. 5   D. $\frac{1}{5}$
25. If $x^3+y^3 =91$ and x+y=7 , then xy is
    A. 19   B. 12   C. 36   D. 71
26. Which of the following points do not lie in any quadrants
    A. (5,4)   B. (-5,0)   C. (5,-3)   D. (-3,-5)
27. The graph of every linear equation in two variables is _____.
    A. Parabola   B. Straight line   C. Point   D. None of these
28. Two angles whose sum is 180^0 are called
    A. Complementary angles   B. Supplementary angles   C. Adjacent angles   D. Reflex angles
29. Diagonals of a quadrilateral bisect each other at right angles and are equal, the quadrilateral is
    A. Rectangle   B. Parallelogram   C. Square   D. Trapezium
30. Angle in a semi circle is
    A. 180^0 B. 90^0 C. Acute angle   D. 360^0
31. The number of circles passing through three non-collinear points
    A. 0   B. 1   C. 2   D. infinity
32. The area of an isosceles right angled triangle with equal side 'a' is

    A. $\frac{\sqrt{3}a^2}{4}$ B. $\frac{a^2}{2}$ C. $\frac{\sqrt{3}a^2}{2}$ D. $\frac{a^2}{4}$
33. The curved surface area of a hemisphere of radius 7cm is
    A. 462 cm^2 B. 231cm^2 C. 308 cm^2 D. 49 cm^2
34. The most frequently occurring observation is called
    A. Mean   B. Median   C. Mode   D. Mean Deviation
35. The sum of the probabilities of all the event of an experiment is
    A. 1   B. More than 1   C. less than 1   D. Zero
36. If $(a+b)^2 = 2a^2+2b^2$, then

    A. a+b=0   B. a-b=0   C. 2ab=0   D. $\frac{a}{b}=0$
37. Two cubes, each of edge 2cm are joined end to end then the surface area of the resulting cuboid is
    A. 50 cm^2 B. 20 cm^2 C. 10 cm^2 D. 40 cm^2

Find the missing elements in the series
38. 1, 8, 27, 64, _____.
    A. 85   B. 128   C. 99   D. 125
39. 2, 3, 5, 7, 11, _____.
    A. 12   B. 13   C. 14   D. 15

40. AZ, BY, CX, _____.
    A. EF   B. GH   C. IJ   D. DW
41. If ELEVEN coaded as 121314 PHANTOM coaded as 5674890, then ELEPHANT coaded as.
    A. 11567824   B. 16546475   C. 12156748   D. 12517648
42. If + = ×,   ,   ,   , then   ?
    A. 26   B. 17   C. 65   D. 11
43. Gain is to loss, as pleasures are to
    A. Accept   B. Pains   C. Celebrate   D. Giving
44. Arrange the letters of the word "masquerade" in alphabatic order.
    A. aaeedmrsqu   B. aadeeuqmrs   C. aadeemqrsu   D. aadeemqurs
45. Which word is of a different class?
    A. Cricket   B. Football   C. Chess   D. Rugby
46. The three digits common to all the five numbers 54763, 47143, 86743, 37614, 73840
    A. 3, 2, 7   B. 7, 3, 0   C. 3, 4, 7   D. 8, 3, 7
47. A is the mother of B, but B is not the daughter of A, what is B to A
    A. Father   B. Son   C. Sister   D. Brother
48. If August 14 Falls on a Monday, what day will be the first day of the next month
    A. Tuesday   B. Saturday   C. Wednesday   D. Friday
49. $5 \times 5 \div 5 \times 5 =$ _____.
    A. 1   B. 625   C. 5   D. 25
50. Present Chief Minister of New Delhi
    A. Vijay Sharma   B. Sheela Diskshit   C. Aravind Kejirval   D. Pranab Mukherjee
51. The Vitamin responsible for anti-sterile activity is
    A. Vit A   B. Vit B   C. Vit E   D. Vit K
52. Milk Fever in cows occurs due to the lack of
    A. Phosphates   B. Calcium   C. Iron   D. Iodine
53. Higher plants take up nitrogen as
    A. Nitrites only   B. Nitrates only   C. Nitrates and ammonia   D. Urea
54. Which one of the following is a fast growing tree?
    A. Teak   B. Eucalyptus   C. Banyan   D. Coconut
55. What is the shape of a human kidney?
    A. Oval   B. Bean shaped   C. Round   D. Rectangular
56. In which season do we need more fat
    A. Spring season   B. Summer season   C. Winter season   D. Rainy season
57. Which one of the following is a man made element
    A. Uranium   B. Thorium   C. Platinum   D. Plutonium
58. Light of which colour has the longest wave length?
    A. Yellow   B. Red   C. Green   D. Blue
59. Which of the following exerts force on the ground when a bicycle is moving?
    A. Pedals   B. Foot of the traveller   C. Handle   D. Both the wheels
60. Which one of the following is neither an element nor a compound?
    A. Silver   B. Air   C. Water   D. Glucose
61. A Jet engine works on the principle of conservation of
    A. Energy   B. Mass   C. Linear momentum   D. Angular momentum
62. Identify the crystalling solid among the following
    A. Glass   B. Carbon black   C. Resin   D. Silver
63. The first model of atom is given by
    A. N. Bohr   B. E. Goldstein   C. Rutherford   D. J.J Thomson
64. The charge of electrone is
    A. 1.602×10^{-19}c   B. 9.108×10^{-3}c   C. 9.8×10^{8}c   D. None of these
65. Voluntary muscles are found in
    A. Alimentary canal   B. Limbs   C. Iris of the eye   D. Bronchi