ALLEN SHARP

**ALLEN's Scholarship Test and Reward Program**

SAMPLE TEST PAPER

Class VI

ALLEN CAREER INSTITUTE
KOTA (RAJASTHAN)

path to success

1. While measuring length using a metre scale, the position of the eye
    (1) should be vertically above the zero mark of the scale.
    (2) should be vertically above the point where the measurement is to be taken.
    (3) should be a little away from the point where the measurement is to be taken,
    (4) does not matter as long as the scale is accurate.

2. What kind of motion does a pendulum have?
    (1) Periodic motion   (2) Rectilinear motion   (3) Rotational motion   (4) Non-periodic motion

3. Motion of which of the following is not periodic?
    (1) Beating of a drum   (2) Rotation of the Earth on its axis
    (3) Revolution of Moon around the Earth   (4) Movement of a pendulum

4. Which of these represents one complete oscillation of the pendulum shown here.

    (1) PQR   (2) PQQP   (3) QRRP   (4) PQR RQP
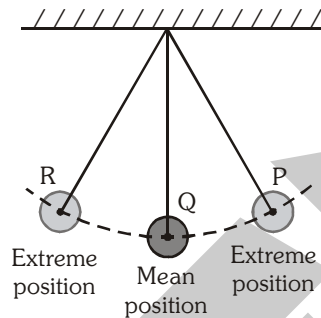
5. Motion of a screw while going into the wood is an example of
    (1) rectilinear and circular motion   (2) rotation and revolution
    (3) rotation and spin motion   (4) rotational and rectilinear motion

6. Ten coins were arranged one above the other Their total height was 5 cm and 6 mm. The thickness of each coin is
    (1) 6.0 mm   (2) 6.5 mm   (3) 5.6 mm   (4) 5.0 mm

7. Which of the folllowing bodies allows only a part of the light to pass through it?
    (1) Oiled paper   (2) Brick   (3) Wood   (4) Air

8. We are able to see Moon because
    (1) it emits light.   (2) it absorbs light.   (3) it reflects sunlight.   (4) it is luminous.

9. Air is not visible because it
    (1) is nearly a perfectly transparent substance.   (2) neither absorbs nor reflects light.
    (3) transmits whole light.   (4) all the above are correct.

10. We can see a reflected image on
    (1) a polished surface   (2) a rough surface   (3) a shadow   (4) none of these

11. Which of the following are the types of mirror?
    (1) Concave   (2) Convex   (3) Plane mirror   (4) All of the above

12. A pinhole camera works because
    (1) light travels in straight lines.   (2) transparent materials allow light to pass through.
    (3) opaque objects do not allow light to pass through. (4) translucent materials form images.

13. Which of the following is true about two adjacent electric charges?
    (1) If both are positive, they attract.   (2) If both are negative, they attract.
    (3) If one is positive and one is negative, they attract. (4) If one is positive and one is negative, they repel.

14. An electric charge is a
    (1) kind of liquid
    (2) property of matter
    (3) kind of chemical reaction
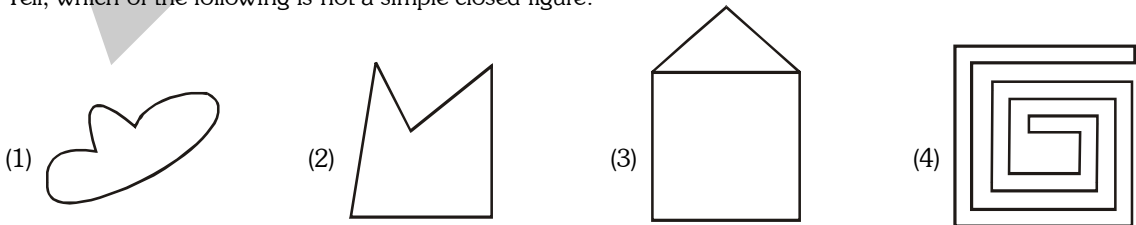   (4) force acting at a distance

15. When few electrons are added to a body, the body is charged

    (1) positive

    (2) negative

    (3) neutral

    (4) The body may have positive or negative charge, depending upon how many electrons are added.

16. What constitutes current in metals?

    (1) electrons   (2) atoms   (3) molecules   (4) protons

17. When a plastic scale is rubbed against dry hair, the plastic scale becomes

    (1) positively charged by loosing electrons.   (2) neutral.

    (3) negatively charged by loosing electrons.   (4) negatively charged by gaining electrons.

18. Select the figures in which the current will flow through the electric circuit?

    (a)   (b)

    (c)   (d)
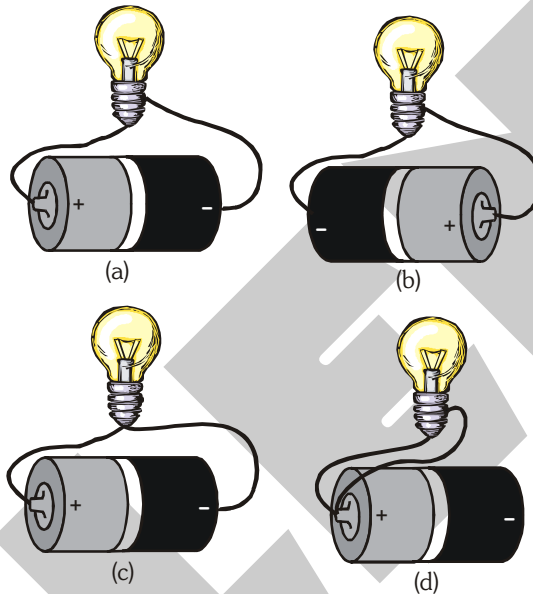
    (1) (a) and (d)   (2) (b) and (c)   (3) (a) and (b)   (4) (a), (b) and (d)

19. The electric current flows in wires due to

    (1) flow of electrons   (2) flow of protons   (3) flow of neutrons   (4) vibration of atoms

20. An iron bar is considered as a magnet if the south pole of any other magnet

    (1) repels its both the ends.

    (2) attracts its both the ends.

    (3) neither attracts nor repels any of its ends.

    (4) attracts its one end and repels its other end.

21. A bar is confirmed to be a magnet when it

    (1) attracts all metal.   (2) attracts another magnet.

    (3) attracts an unmagnetised piece of iron.   (4) repels a magnet.

22. You are given two similar unmarked bars. One of them is a magnet while the other is a magnetic material. Without any other aid, how would you deduce which one of them is a magnet.

    (1) By placing the two bars parallel to each other.

    (2) By placing the tip of one of the bars near the middle point of the other bar.

    (3) By placing the tip of one of the bars near that other bar such they are parallel to each other.

    (4) By placing the tip of one of the bars near that of other such that they are perpendicular to each other.

23. Magnetism in materials is due to

    (1) electrons at rest

    (2) motion of electrons around the nucleus

    (3) protons at rest

    (4) neutrons at rest

24. What happens when a magnet is brought near an iron nail?

(1) The magnet repels the nail.

(2) The nail repels the magnet.

(3) The nail becomes magnetic.

(4) Nothing will happen.

25. Iron attracts

(1) only the north pole of a magnet.

(2) only the south pole of a magnet.

(3) both north and south poles of a magnet.

(4) the north pole but repels the south pole.

26. Sudha took lemon juice in two flasks. She put salt in flask I and washing soda in flask II. She observed lots of bubbles in flask II but nothing in flask I. What could be the reason for this?

(1) In flask I, a chemical change takes place.

(2) In flask II, a chemical change takes place and bubbles of carbon dioxide are seen.

(3) In flask II, a physical change takes place producing lots of bubbles.

(4) In flask I, salt reacts with lemon juice and forms a new compound.

27. A metallic piece (X) is dropped into copper sulphate solution. After some time, the blue colour of the solution changes to green. The change which has occurred is :-

(1) Physical and reversible change

(2) Physical and irreversible change

(3) Chemical and reversible change

(4) Chemical and irreversible change.

28. What is common among the following phenomena?

1. Blinking of traffic lights.

2. Rotation of blades of a fan.

3. Swinging of pendulum of a clock.

(1) All are chemical changes.

(2) All are periodic changes.

(3) All are undesirable changes.

(4) All are irreversible changes.

29. Rohan tore a sheet of paper into pieces and then burnt them. Identify the chemical change taking place in the process :-

(1) Tearing the sheet into ieces.

(2) Burning the pieces

(3) Both tearing and burning the pieces

(4) None of these

30. A potter shapes pots out of clay (Process 1).

He then bakes the pots in an oven (Process 2).

Which of the following statements is correct?

(1) Process 1 is a reversible, physical change while process 2 is an irreversible, physical change.

(2) Process 1 is an irreversible, physical change while process 2 is an irreversible, chemical change.

(3) Process 1 is a reversible, physical change while process 2 is an irreversible, chemical change.

(4) None of these.

31. Consider the following phenomena :

(i) Forest fire

(ii) Growth of plants

(iii) Low and high tides

(iv) Occurrence of a rainbow

(v) Earthquakes

(vi) Opening of a morning glory flower.

Which of the above phenomena can be classified as periodic changes?

(1) (i), (ii) and (iii)   (2) (i), (ii) and (v)   (3) (iv), (v) and (vi)   (4) (iii) and (vi)

32. When carbon dioxide and water combines they form glucose, this is an example of _____ change.

(1) Physical   (2) Chemical   (3) Reversible   (4) Undesirable

33. Raghu in his craft class is making beads by using POP (plaster of paris). The setting of beads by using water is a/an :-

(1) Physical change   (2) Reversible change   (3) Irreversible change   (4) No change

34. Which type of change takes place when a rolled roti is baked on taw a?

(1) physical change   (2) permanent change   (3) periodic change   (4) none of these

35. Exothermic change is :-

(1) accompanied by release of energy

(2) accompanied by absorption of energy

(3) a change in which heat energy is neither released nor absorbed

(4) All the above

36. Find the odd one out :-

(1) Permanent change   (2) Reversible

(3) Change in composition   (4) Formation of new substance

37. Find the odd one out :-

(1) crushing   (2) pulling   (3) burning   (4) tearing

38. Which of the following is a natural, non-periodic change?

(1) The heart beat of a human being   (2) The low and high tides

(3) The eruption of volcanoes   (4) The sunrise and sunset

39. A list of changes is given below. Identify their type and choose correct option :

(i) Boiling of egg.

(ii) Making curd from milk

(iii)Flowering of bud

(iv) Making flour from grain

(1) (i), (ii), (iii) and (iv) are irreversible changes   (2) (i) and (iv) are chemical changes

(3) (i), (ii), and (iv) are natural changes   (4) (ii), (iii) and (iv) are periodic changes

40. Which of the following fibres is separated by ginning?

(1) Jute   (2) Cotton   (3) Wool   (4) Silk

41. Lustre is the property of a material to shine when it is freshly cut or sand-papered. Which of the following freshly sand-papered surfaces will have lustre?

(1) Copper   (2) Wood   (3) Cardboard   (4) Plastic

42. Which of the following is essential to perform winnowing activity?

(1) soil   (2) water   (3) wind   (4) none of these

43. We cannot use seawater because :-

(1) Sea water is salty   (2) Sea water is polluted

(3) Of high cost   (4) Sea water cannot be transported

44. Churning is used for separating :-

(1) butter from milk.   (2) tea leaves from tea.

(3) wheat from husk.   (4) stones from wheat.

45. A glass containing muddy water is left undisturbed. After sometime the particles of mud settle at the bottom.This is called :-

(1) decantation.   (2) filtration.   (3) sedimentation.   (4) evaporation

46. The example of not a mixture is :-

(1) diamond   (2) vinegar   (3) steel   (4) air

47. Ammonium chloride can be separated from common salt by :-

(1) decantation   (2) evaporation   (3) sublimation   (4) separating funnel

48. Decantation is limited to :-

(1) Solid-Solid Heterogeneous mixture   (2) Solid-liquid heterogeneous mixture

(3) Solid-liquid homogenous mixture   (4) liquid-liquid homogenous mixture

49. Solid-Solid mixture cannot be separated by :-

(1) handpicking   (2) sieving   (3) Magnetic separation   (4) Evaporation

50. Which special substance is used to load the suspended particles by loading method?

(1) Salt   (2) Alum   (3) Sugar   (4) Naphthalene

51. One billion is equal to

(1) 10 lakh   (2) 100 lakh   (3) 1000 lakh   (4) 10000 lakh

52. Which of the following numbers in Roman numerals in incorrect?

(1) LXXX   (2) LXX   (3) XL   (4) LLX

53. What must be subtracted from 11010101 to get 2635967.

(1) 934134   (2) 7383414   (3) 8374134   (4) 937414

54. Make the greatest four digit number by using any one digit twice by 3,8,7

(1) 3387   (2) 8378   (3) 8873   (4) 8773

55. Find the whole number if n + 4 = 9

(1) 5   (2) 3   (3) 4   (4) 6

56. What is the place value of 5 in the given decimal 924.75

(1) ones   (2) tens   (3) tenth   (4) hundredth

57. Write 0.342 as fractions in lowest terms.

(1) $2\dfrac{171}{500}$ (2) $\dfrac{171}{500}$ (3) $\dfrac{17}{20}$ (4) None of these

58. Which two colours liked by same number of people?

(1) green and red   (2) white and yellow   (3) green and black   (4) black and red

59. 48 is not a multiple of

(1) 4   (2) 12   (3) 18   (4) 16

60. Which of the following is a pair of co-primes?

(1) 20,25   (2) 18, 35   (3) 15, 63   (4) 27, 81

61. The HCF of two consecutive numbers is always

(1) 0   (2) 1   (3) 2   (4) product of numbers

62. Which of the following is not found in the given figure?

(1) Point   (2) Ray   (3) Line   (4) Line segment

63. Tell, which of the following is not a simple closed figure?

64. If $\dfrac{453}{0} = x$; then x is a :

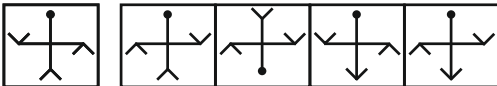(1) natural number   (2) rational number   (3) real number   (4) undefined

65. If the gratest 5-digit number is added to 1; the result is :

(1) smallest 6-digit number
(2) greatest 6-digit number
(3) smallest 5-digit number
(4) greatest 5-digit number

66. $(a + b) + c = a + (b + c)$. The property demostrated by the above equaiton is :

(1) Associative
(2) Commutative
(3) distributive
(4) closure

67. $121 + (625 + 93) = 93 +$ _____

(1) 706
(2) 726
(3) 736
(4) 746

68. Tanget to a circle, touches the circle at _____ points

(1) 1
(2) 2
(3) 3
(4) 0

69. H.C.F. of (4,10,38) is

(1) 1
(2) 2
(3) 10
(4) 4

70. $6 - (-5) - 2(-3)$ equals

(1) –5
(2) –17
(3) 17
(4) 5

71. A cube has _____ dimension.

(1) 0
(2) 1
(3) 2
(4) 3

72. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 9 to 6?

(1) $\dfrac{5}{4}$
(2) $\dfrac{1}{2}$
(3) $\dfrac{3}{4}$
(4) $\dfrac{1}{4}$

73. Wcich of the following roman notation is incorrect :

(1) XL
(2) XVI
(3) XXXXV
(4) DC

74. How many integers lie in between –3 and 2?

(1) 1
(2) 3
(3) 4
(4) 5

75. The H.C.F. of two consecutive even numbers is :

(1) 2
(2) 1
(3) 4
(4) 8

76. The food components present in sugar is -

(1) Fats
(2) Proteins
(3) Carbohydrates
(4) Vitamins

77. The disease caused by the deficiency of iron is-

(1) Anaemia
(2) Dysentry
(3) Chicken pox
(4) Malaria

78. Deficiency of protein and carbohydrates in infants leads to

(1) Marasmus
(2) Goiter
(3) Obesity
(4) Typhoid

79. Food is essential for all living organisms because

(1) It provides energy
(2) It helps in growth and repair cells
(3) It protects our body from various disease
(4) All of these

80. Beans, Uraddal, Grams are rich in -

(1) Spices
(2) Proteins
(3) Ingredients
(4) Fats

81. Materials required to prepare a fooditemare called-

(1) Nutrients
(2) Ingredients
(3) Nourishments
(4) Minerals

82. Which of the leaveshave reticulate venation?

(1) Wheat
(2) Tulsi
(3) Maize
(4) Grass

83. Water comes out the leaves in the form of vapour by a process called-

(1) Photosynthesis
(2) Respiration
(3) Digestion
(4) Transpiration

84. Which of the following is not a part of flower:

(1) Sepals
(2) Petals
(3) Leaves
(4) Stamens

85. The presence of hard and thick stemis a feature of_

(1) Herb   (2) Shmb   (3) Climber   (4) Tree

86. Which of the following is not an aim bone in the human being?

(1) Humerus   (2) Ulna   (3) Femur   (4) Radius

87. The pivot joints occur in our skeletonat:

(1) Leg   (2) Neck   (3) Knee   (4) Hip

88. Which one of the following hasthe hinge joint betwe en them?

(1) Skull anupperjaw   (2) Skull andlowerjaw

(3) Hip bone and back bone   (4) Hip bone and thigh bone

89. Environment consists of which of the following things?

(1) Only abiotic components   (2) Only biotic components

(3) Both biotic and abiotic components   (4) Only plants and animals

90. The place where living beings live is called their_____

(1) Adaptation   (2) Habitat   (3) Habit   (4) Surroundings

91. Which of the following is not the characteristic of a living thing?

(1) Growth   (2) Movement   (3) Do notneedfood   (4) Respiration

92. Which one of the following is nottenestrial habitat?

(1) Soil   (2) Ocean   (3) Forest   (4) Desert

93. Bending of a stemtowards sunlight is called:

(1) Geotropism   (2) Thigmotropism   (3) Hydrotropism   (4) Phototropism

94. Which one of the following is not a method of garbage disposal?

(1) Landfill   (2) Veimicompo sting   (3) Cycling   (4) Composting

95. Which one of the following is used formaltingveimicomposts?

(1) House flies   (2) Cockroaches   (3) Butterfly   (4) Redworms

96. Leaves falling from trees shouldbe

(1) dumped near the ponds andlakes   (2) dried and burnt

(3) use din making compost   (4) dumped in landfill area

97. Garbage from cities are dumped at

(1) riversides   (2) inside ponds andlakes   (3) landfill areas   (4) sewage pit

98. Which one of these animals can live onlandaswell asin water?

(1) Deer   (2) Giraffe   (3) nog   (4) Fox

99. Yakshave one of the following on their bodiesto keep them warm. This one is

(1) feathers   (2) hair   (3) scales   (4) shells

100. Which of the following animals moves with just one large, disc-shaped muscular foot?

(1) Earthworm   (2) Cockroach   (3) Snail   (4) Tortoise

Directions (**Q. 101 - Q.102**)

Find the water image of the object given in the question figure denoted by (A), out of the figures given in the answer choices, (1), (2), (3) and (4) :-

101.

(A)   (1)   (2)   (3)   (4)

102.
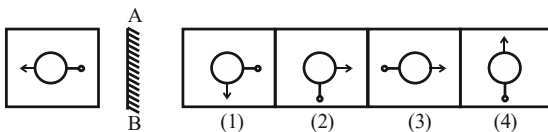
(A)　(1)　(2)　(3)　(4)

103.

(A)　(1)　(2)　(3)　(4)
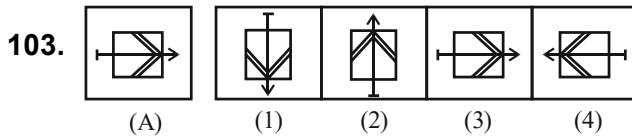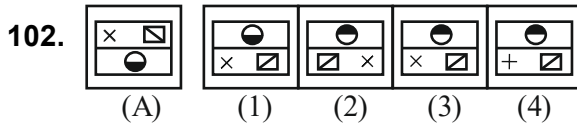
Direction (Q. 104 - Q. 105)

In each of the following questions, choose the correct mirror image of the figure given from amongst the four alternatives (1), (2), (3) and (4), when mirror is placed on the line AB :-
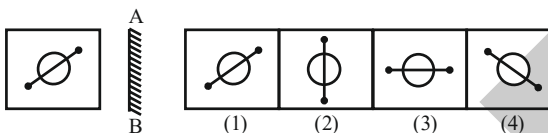
104. Question Figure　　**Answer Figures**

105. Question Figure　　**Answer Figures**

106. A man travels 3 km to the west, turns left and goes 3 km, turns right and goes 1 km. Again turns right and goes 3 km. How far is he from the starting point?

(1) 7 km　　　(2) 6 km　　　(3) 5 km　　　(4) 4 km

107. Mohan travels 7 km eastwards, then he turns right and travels 3 km and further turns right again and travels 11 km. How far is he from the starting point?

(1) 5 km　　　(2) 14 km　　　(3) 23 km　　　(4) 21 km

108. 1 121 441 961 1681 ?

(1) 2701　　　(2) 2511　　　(3) 2611　　　(4) None of these

109. 31 35 44 60 85 ?

(1) 121　　　(2) 111　　　(3) 109　　　(4) 97

110. Find the next number in the given series?

8, 15, 36, 99, 288, ?

(1) 368　　　(2) 676　　　(3) 855　　　(4) 908

111. Sam ranked ninth from the top and thirty-eighth from the bottom in a class. How many students are there in the class?

(1) 45　　　(2) 46　　　(3) 47　　　(4) 48

112. If Atul finds that he is twelfth from the right in a line of boys and fourth from the left, how many boys should be added to the line such that there are 28 boys in the line?

(1) 12　　　(2) 13　　　(3) 14　　　(4) 20

113. Choose the missing term to complete the given series.

3, 5, 10, 12, 24, 26, 52,?

(1) 104　　　(2) 102　　　(3) 54　　　(4) 50

Direction for Q. No. 114 & 116 : Find the missing term in place of (?).

114. 2Z5, 7Y7, 14X9, 23W11, 34V13,?

(1) 47U15　　　(2) 45U15　　　(3) 47U17　　　(4) 45U17

115. W-144 , U-121, S-100, Q-81,?

(1) P-64   (2) O-49   (3) O-64   (4) N-49

116. D-4, F-6, H-8, J-10, (?), (?)

(1) K-12, M-13   (2) L-12, M-14   (3) L-12, N-14   (4) K-12, M-14

117. Arrange the following words according to dictionary arrangemnt:

1. Epitaxy 2. Episode 3. Epigene 4. Epitome 5. Epilogue

(1) 1,2,3,4,5   (2) 3,2,5,4,1   (3) 3,5,2,1,4   (4) 2,1,3,4,5

118. How many D's are there in the following series which are immediately followed by W but not immediately preceded by K?

K D C W K D W N K G D W W D H K V D W X D W

(1) Nil   (2) One   (3) Two   (4) Three

119. In the English alphabet, which letter is 10th from right?

(1) P   (2) Q   (3) R   (4) S

120. If north moves 135° in clockwise direction and west also moves 135° in clockwise direction then North–East replaces which direction?

(1) South   (2) north   (3) East   (4) South west