ALLEN SHARP

ALLEN's Scholarship Test and Reward Program

SAMPLE TEST PAPER

Class VII

path to success

ALLEN CAREER INSTITUTE
KOTA (RAJASTHAN)

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1. If two objects are in thermal equilibrium with each other
(1) they cannot be moving. (2) they cannot be undergoing collisions.
(3) they cannot have different pressures. (4) they cannot be at different temperatures.

2. 1 calorie is about
(1) 0.24 J (2) 8.3 J (3) 250 J (4*) 4.2 J

3. The boiling point of liquid hydrogen is –252.87 °C. What is the value of this temperature in kelvins?
(1) 273 K (2) 20.13 K (3) – 525.87 K (4) 0 K

4. A cake has to be baked at a temperature of 350.6 °F. What is this temperature on the Celsius scale?
(1) 162 °C (2) 194 °C (3) 177 °C (4) 212 °C

5. The temperatures of the two glasses of water are 30 °C and 0 °C. The difference in temperature of the two glasses of water is 30 °C. What is their difference in temperature on the Kelvin scale?
(1) 30 K (2) 243 K (3) 86 K (4) 303 K

6. How does a cyclone form?
(1) Warm air rises over warm ocean water and becomes less dense. Surrounding air begins to spin in a anticlockwise direction.
(2) Cool air rises over cool ocean water and becomes more dense. Surrounding air begins to spin in a clockwise direction.
(3) Warm air rises over cool ocean water and becomes less dense. Surrounding air begins to spin anticlockwise direction.
(4) Cool air rises over warm ocean water and becomes more dense. Surrounding air begins to spin in a clockwise direction.

7. Which one of the following place is unlikely to be affected by a cyclone?
(1) Chennai (2) Mangaluru (Mangalore)
(3) Amritsar (4) Puri

8. What happens as air has weight?
(1) Air lifts objects. (2) Air pushes objects.
(3) Air drops objects. (4) Air pulls objects.

9. What results from differences in air pressure?
(1) Rain (2) Wind (3) Humidity (4) Evaporation

10. An anemometer is used to measure
(1) wind speed (2) wind temperature
(3) wind direction (4) wind pressure

11. If a particle moves from one point to another along a straight line at a constant speed, then
(1) Its velocity is constant
(2) Its velocity may be constant
(3) Its velocity cannot be constant
(4) No conclusion can be drawn about its velocity

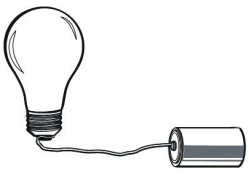
12. Two bodies moving with same speed but in different directions will have
(1) Same velocities (2) Different speed
(3) Same displacement (4) Different velocities

13. A bus moves with a speed of 40 km/h and covers a distance of 20 km. What is the total time taken by bus during the whole journery?
(1) 1 hour (2) 2/3 hour (3) 1/4 hour (4) 1/2 hour

14. Rate of distance travelled by the body is termed as
(1) Displacement (2) Speed (3) Velocity (4) None of these

15. An object travels 20 m in 5 sec and then another 40 m in 5 sec. What is the average speed of the object?
(1) 12 m/s (2) 2m/s (3) 6 m/s (4) 0 m/s

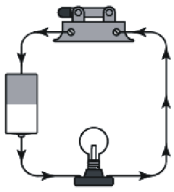
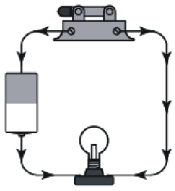
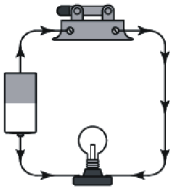
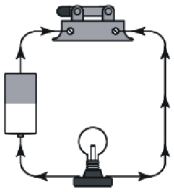
16. A student made the circuit in the picture



What does the student need to add to the circuit to make it work?

(1) another bulb (2) another wire (3) another battery (4) a switch

17. Which diagram best shows how electricity flows through a complete circuit?

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

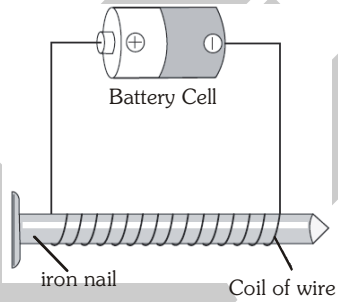
18. A fuse is placed in an electrical circuit to protect it from

(1) Over heating (2) Over usage (3) Over dosage (4) Short circuit

19. MCBs are connected to the

(1) Neutral wire (2) Earth wire (3) Live wire (4) None of these

20. Look at the picture of an electromagnet.



The strength of this electromagnet can be increased by

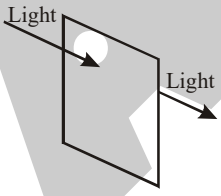
(1) increasing the amount of current. (2) decreasing the number of coils in the wire.

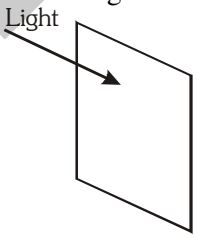
(3) decreasing the amount of current. (4) adding a light bulb and switch.

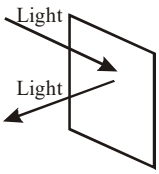
21. An incident ray strikes a plane mirror at an angle of 15° with the mirror. The angle between incident ray and reflected ray is

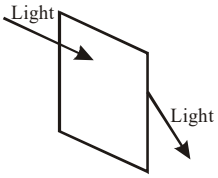
(1) 15° (2) 30° (3) 150° (4) None of these

22. Which of these correctly shows how light acts when it hits a mirror?

(1) 

(2) 

(3) 

(4) 

23. In a plane mirror, the distance of an image is the

(1) same as that of the object

(2) greater than that of the object

(3) less than that of the object

(4) none of these

24. A rear-view mirror of a vehicle is designed to help the driver to see the area behind the vehicle. What kind of optical instrument is a rear-view mirror?

(1) plane mirror (2) convex mirror (3) concave mirror (4) None of above

25. When white light passes through a prism,
(1) Red colour is deviated more than the violet colour.
(2) Violet colour is deviated more than the red colour
(3) Both are deviated by the same amount
(4) None of these

26. Which of the following terms is not related to silk production?
(1) Sericulture (2) Shearing (3) Caterpillar (4) Pupa

27. Silk worms take :-
(1) 7 days to spin a cocoon
(2) 15 days to spin a cocoon
(3) 10 days to spin a cocoon
(4) One day to spin a cocoon

28. Wool bearing animals are :-
(1) Camel and Llama
(2) Alpaca and Vicuna
(3) Angora and Cashmere goat
(4) All of these

29. Which is the proper sequence in processing fibre into wool?
(1) shearing ⟶ sorting ⟶ rolling ⟶ scouring
(2) shearing ⟶ scouring ⟶ sorting ⟶ rolling
(3) sorting ⟶ scouring ⟶ rolling ⟶ shearing
(4) scouring ⟶ shearing ⟶ sorting ⟶ rolling

30. The silk produced in Brahmputra valley is called :-
(1) muga silk (2) wild silk (3) sheer silk (4) both (1) and (2)

31. The acids which are obtained from the minerals present in Earth are called :-
(1) organic acids (2) strong acids (3) inorganic acids (4) weak acids

32. The chemical formula of sulphuric acid is :-
(1) HCl (2) HNO_3 (3) H_2SO_4 (4) H_2CO_3

33. Which of the following acid is used for making soft drinks?
(1) Acetic acid (2) Tartaric acid (3) Carbonic acid (4) Nitric acid

34. A teacher performed the following experiment in the class.
He took some clear lime water and added red litmus solution.
What is the conclusion of the above experiment?
(1) Red litmus remains red
(2) Red litmus turns yellow
(3) Red litmus turns green
(4) Red litmus turns blue

35. Milk of magnesia is :-
(1) $MgCl_2$ (2) $Mg(OH)_2$ (3) $Mg(NO_3)_2$ (4) $MgSO_4$

36. Melting of wax is a _____.
(1) chemical change
(2) decomposition reaction
(3) both physical and chemical change
(4) physical change

37. Which of the following is a chemical change?
(1) Formation of clouds
(2) Formation of rust
(3) Manufacture of milk powder from milk
(4) Formation of black coating on the walls of tube light

38. Change of milk to curd is a :-
(1) physical change
(2) chemical change
(3) both physical and chemical change
(4) neither physical nor chemical change

39. Which of the following statement(s) is/are correct?
(1) Iron and rust are same substance
(2) Rusting of iron is a chemical change
(3) Removal of rust from surface of iron is a chemical change
(4) All of these

40. Why rusting of iron is a chemical change?
(1) Because it changes its colour (2) Because it makes iron powdery
(3) Because a new substance is formed (4) None of these

41. Which of the following is mostly used as a drinking water source by us?
(1) Sea water (2) Glaciers (3) Ground water (4) None of these

42. The chemical formula of ice is :-
(1) H_2 (2) O_2 (3) H_2O (4) H_2O_2

43. The following type of water is not found in natural state :-
(1) river water (2) well water (3) distilled water (4) rain water

44. When a drop of vinegar solution is put on the litmus paper, it turns :-
(1) red (2) blue (3) green (4) yellow

45. The acid which is present in our stomach is :-
(1) Hydrochloric acid (2) Sulphuric acid (3) Nitric acid (4) Acetic acid

46. When an ant bites, it injects some acids and cause inflammation. This can be treated by rubbing some baking soda on the affected area. Here the reaction involved is :-
(1) Redox Reaction (2) Addition reaction
(3) Neutralisation reaction (4) Both 1 and 3

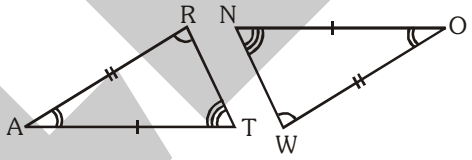
47. Common salt is :-
(1) acidic (2) basic (3) neutral (4) none of these

48. Which of the following is a natural indicator?
(1) China rose petal (2) Turmeric (3) Litmus (4) All of these

49. Litmus is a natural indicator and is extracted from :-
(1) Spinach (2) Berries (3) Grapes (4) Lichens

50. Milk of magnesia is :-
(1) Calcium hydroxide (2) Magnesium hydroxide
(3) Sodium hydroxide (4) Potassium hydroxide

51. In the figure, the two triangles are congruent.The corresponding parts are marked. We can write $\Delta RAT \cong$?



(1) ΔWON (2) ΔOWN (3) ΔNWO (4) ΔNOW

52. If Meena gives an interest of Rs 45 for one year at 9% rate p.a.. What is the sum she has borrowed?
(1) 1000 (2) 500 (3) 250 (4) 450

53. Find the product :

$$\frac{3}{-5} \times \frac{-5}{3}$$

(1) 1 (2) $\frac{-6}{35}$ (3) $-\frac{4}{5}$ (4) 2

54. Find the whole quantity if 70% of it is 14 minutes
(1) 40 minutes (2) 12 minutes (3) 20 minutes (4) 75 minutes

55. A local cricket team played 20 matches in one season. It won 25% of them. How many matches did they win?
(1) 1 (2) 3 (3) 5 (4) 7

56. Which of the following pairs not represent the same rational number?

(1) $\frac{-7}{21}$ and $\frac{3}{9}$ (2) $\frac{-16}{20}$ and $\frac{20}{-25}$ (3) $\frac{-2}{-3}$ and $\frac{2}{3}$ (4) $\frac{-3}{5}$ and $\frac{-12}{20}$

57. Find value of $|-20|$

(1) –20 (2) 20 (3) 0 (4) 1

58. One can of Juice contain 330 mililiters of Juice. How many litre of Juice in there in a pack of dozen can?

(1) 396 liters (2) 39.6 liters (3) 3.96 liters (4) 0.396 liters

59. What is place value of 2 in the 21.37 decimal number?

(1) Ones (2) Hunderdth (3) Tens (4) Thousandths

60. Multiply the fraction $6\frac{2}{5}\times\frac{7}{9}$

(1) $\frac{224}{35}$ (2) $\frac{224}{45}$ (3) 224 (4) 45

61. Solve the equation :

$\frac{a}{5}+3=2$

(1) –5 (2) +5 (3) –1 (4) +1

62. The sum of two consecutive even number is 86 the larger of two is :-

(1) 46 (2) 36 (3) 38 (4) 44

63. Find the range of height of any ten student of your class :

125, 127, 132, 133, 134, 136, 138, 141, 144, 146

(1) 20 (2) 22 (3) 21 (4) 23

64. Find mean of first 5 whole numbers :-

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

65. The product of 3 integers is – 600. If two of them are –15 and +10 then find the third integer :-

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

66. A dice is rolled once what is the probability of rolling a multiple of 3 number ?

(1) $\frac{1}{3}$ (2) $\frac{1}{2}$ (3) $\frac{1}{6}$ (4) $\frac{5}{6}$

67. In statistics a suitable graph for companing the data easily is

(1) A for graph (2) A pictograph (3) A pic chart (4) None of these

68. Is x = –5 is solution of 5x = 25 ?

(1) Yes (2) No (3) Cant by determine (4) None of these

69. Solve the equation :

$\frac{a}{5}+3=2$

(1) –5 (2) +5 (3) –1 (4) +1

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(1) 20 (2) 22 (3) 21 (4) 23

72. Find mean of first 5 whole numbers :-

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

73. Find the mode and median of the data :

13, 16, 12, 14, 19, 12, 14, 13, 14

(1) 14, 14 (2) 13, 13 (3) 13, 14 (4) 14, 13

74. Find the value of :

$\frac{0.34-0.034}{0.0034\div 34}$

(1) 0.306 (2) 306 (3) 3060 (4) 0.0306

75. The product of 3 integers is – 600. If two of them are –15 and +10 then find the third integer :-
(1) 1 (2) 2 (3) 3 (4) 4

76. A plant that has both autotrophic arid heterotrophic mode of nutrition.
(1) Cactus plant (2) Rhizobmm (3) Amarbel (4) Pitcher plant

77. In me absence of which of me following will photosynthesis is not occur in leaves?
(1) Guard cells (2) Chlorophyll (3) Vacuole (4) Space between cells

78. There are given some parts of digestive system, choose the odd one out
(1) Stomach (2) Liver (3) Pancreas (4) Salivary gland

79. The enzyme present in the saliva convert
(1) Fats into fatty acids and glycerol (2) Proteins into amino acids
(3) Starch into simple sugar (4) Simple sugar into complex sugar

80. The removing of faecal matter through the anus is called-
(1) Digestion (2) Egestion (3) Absorption (4) None of these

81. During the exhalation, the ribs-
(1) Move outwards (2) Move downwards
(3) Move upwards (4) Do not move at all

82. Which of the following organisms can respire anaerobically?
(1) Amoeba (2) Paramecium (3) Euglena (4) Yeast

83. More energy is released in-
(1) Breaming (2) Fermentation
(3) Anaerobic respiration (4) Aerobic respiration

84. Muscular floor of the chest cavity is called-
(1) Diaphragm (2) Trachea (3) Bronchus (4) Rib cage

85. Aquatic animals excrete cell waste mostly as
(1) ammonia (2) oxygen (3) carbon dioxide (4) nitrogen

86. The number of heart beats per minute is called-
(1) pulse rate (2) throbbing (3) beating (4) none of these

87. The absorption of nutrients and exchange of respiratory gases between blood and tissues take place in
(1) veins (2) arteries (3) heart (4) capillaries

88. The processes of removal of waste materials from the bodyis called
(1) digestion (2) excretion (3) respiration (4) inhalation

89. Which of the following is an effect of sweat on me human body?
(1) It causes cooling. (2) It causes heating. (3) It causes freezing. (4) It causes melting.

90. Asexual reproduction takes place through budding in -
(1) Potatoes (2) Yeast (3) Ferns (4) Spirogyra

91. Which of the following is not a vegetative part of a plant.
(1) Stem (2) Leaves (3) Flowers (4) Roots

92. Roseplant is grown by -
(1) Leaf cutting (2) Stem cuftms (3) Seed (4) Root cutting

93. In which of the following plants buds are present on the margins of leaves?
(1) Bryophyllum (2) Touch me not (3) Chandan (4) Coriander

94. Which factor influences soil formation?
(1) Climate (2) Vegetation (3) Microorganism (4) All of these

95. In which horizon of soil minerals are found?.
(1) A (2) B (3) C (4) None

96. Which of the following has smallest size soil particles ?
(1) Gravel (2) Silt (3) Clay- (4) Sand

97. Nights in deserts are much cooler because
(1) humidity becomes high (2) sand cools down faster
(3) wind blows vigorously (4) it rains at night

98. Elements of weather are
(1) temperature (2) humidity (3) rainfall' (4) all of these

99. Which kind of plants generally constitute under storey layer in the forest?
(1) Grass (2) Shrubs (3) Tall trees (4) Herbs

100. Forests are not responsible for
(1) providing medicinal plants
(2) maintaining the flow of water into the streams
(3) creating flood conditions
(4) absorbing rainwater and maintaining water table

Direction (101-103)

Answer the given questions based on the following English alphabet:
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

101. Which letter is fifth to the right of the eighteenth letter from your right?
(1) C (2) D (3) E (4) N

102. If all the vowels are removed from the alphabet, which letter will be seventh to the right of the fifth letter from the left?
(1) L (2) M (3) N (4) P

103. If every alternate letter, starting with A, is removed from the alphabet, which letter among the remaining letters would be the third to the right of the fifth letter from the right?
(1) X (2) V (3) L (4) J

104. If the above alphabet is arranged in reverse order, which letter will be twelfth to the left of the sixteenth letter from your left?
(1) D (2) V (3) W (4) X

Direction (Q.105 to Q.109)

Study the given information carefully and answer the questions that follow:
(i) A, B, C, D, E, F and G are sitting on a wall and all of them are facing East.
(ii) C is to the immediate right of D.
(iii) B is at an extreme end and has E as his neighbour.
(iv) G is between E and F.
(v) D is sitting third from the South end.

105. Who is sitting to the right of E?
(1) A (2) C (3) G (4) F

106. Which of the following pairs of people are sitting at the extreme ends?
(1) A and B (2) A and E (3) C and B (4) F and B

107. Name the person who should change place with C such that he is at the third place from the North end.
(1) E (2) F (3) G (4) D

108. Immediately between which of the following pairs of people is D sitting?
(1) A and C (2) A and F (3) C and E (4) C and F

109. Which of the conditions (i) to (v) given is not required to find out the place in which A is sitting?
(1) (i) (2) (ii) (3) (iii) (4) All are required

110. Sima starts from point P, walks 7 km towards east then turns left and walks another 4 km. Now, she turns right and walks 2 km. In which direction she ends up?
(1) South (2) North (3) East (4) West

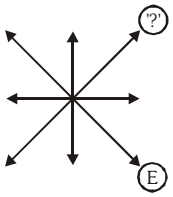
111. Find the direction which replaces '?' in the given figure.

(1) N

(2) NE

(3) W

(4) SW



112. Going 50 m to the south of her house, Radhika turns left and goes another 20 m. Then, turning to the North, she goes 30 m and then starts walking to her house. In which direction is she walking now?

(1) North-West (2) North (3) South-East (4) East

Direction (Q.113 to Q.116) : What should come next in the series given below?

113. Ad, Be, Cf, Dg,?

(1) EH (2) Eh (3) eH (4) El

114. PZ, TY, XX, BW,?

(1) FV (2) GV (3) FU (4) GT

115. 1, 8, 27, 64, 125,?

(1) 150 (2) 216 (3) 228 (4) 236

116. (48, 12), (40, 10), (32, 8), (24, 6),?

(1) (14, 7) (2) (16, 8) (3) (16, 4) (4) (9, 6)

117. Which of the following words will come second in the English dictionary?

(1) Magical (2) Magnify (3) Maternal (4) Magnetic

118. Find the next term?

C4X, F9U, I16R, ?

(1) K25P (2) L25P (3) L25O (4) L27P

119. If TEMPLE is coded as RCKNJC, in the same way MOSQUE is coded as :-

(1) KNQPTD (2) KMQOSC (3) OQUSWG (4) LMPNRB

120. Some boys are sitting in a line. Mahendra is on 17th place from left and Surendra is on 18th place from right. There are 8 boys in between them. How many boys are there in the line?

(1) 43 (2) 42 (3) 41 (4) 44