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| CLASS-VII | AARAMBH | DATE: 03-10-19 |
| Max. Time: 120 min | | Max marks: 320 |

Instructions:

- The test paper consists of **80** multiple choice questions numbered from **1 to 80**, each question followed by four alternatives 1, 2, 3 and 4.
- Mental Ability 1 to 20, Mathematics 21 to 35, Physics 36 to 50 and Chemistry 51 to 65, Biology 66 to 80.
- Each question has only one correct option.
- Each correct answer carries **+4 Marks**.
- No negative marking for wrong answer.

MAT (Q.NO.1 TO 20)

- 66, 36, 18, ?**
 1) 3 2) 6 3) 8 4) 9
- 3, 10, 101, ?**
 1) 10101 2) 10201
 3) 10202 4) 11012
- 5824, 5242,?, 4247,3823**
 1) 4467 2)4718
 3) 4856 4) 5164
- 13, 35, 57, 79, 911,?**
 1) 1110 2) 1112 3) 1113 4) 1315
- The position of the first and the second digits in the number 94316875 are interchanged. Similarly, the position of the third and fourth digits are interchanged and so on. Which of the following will be the third to the left of the seventh digit from the left end after the rearrangement?**
 1) 1 2) 4 3) 6 4) None of these
- How many such pairs of digits are there in the number 531268947 each of which has as many digits between them in the number as when they are arranged in descending order?**
 1) None 2) One
 3) Two 4) More than three

7. Three persons A, B and C are standing in a queue. There are five persons between A and B and eight persons between B and C. If there are three persons ahead of C and 21 behind A, then what could be the minimum and maximum number of persons in the queue?

- 1) 27, 36 2) 28, 40 3) 40, 81 4) 41, 96

Directions (Questions 8-11): According to a code language, words in capital letters in Column I are written in small letters in Column II. The letters in Column II are jumbled up.

Column I

- (1) CURSE
- (2) INCUR
- (3) TALLY
- (4) CADET
- (5) DRIP
- (6) TOIL
- (7) VARY

Column II

- (A) opkif
- (B) fbpoc
- (C) ughvg
- (D) rkufh
- (E) røtc
- (F) jugc
- (G) vwoh

8. DAIRY

- 1) cvohr 2) gkvbf 3) rctvo 4) whtou

9. CIVIL

- 1) gfwcc 2) ghcww 3) ggwfc 4) gwffc

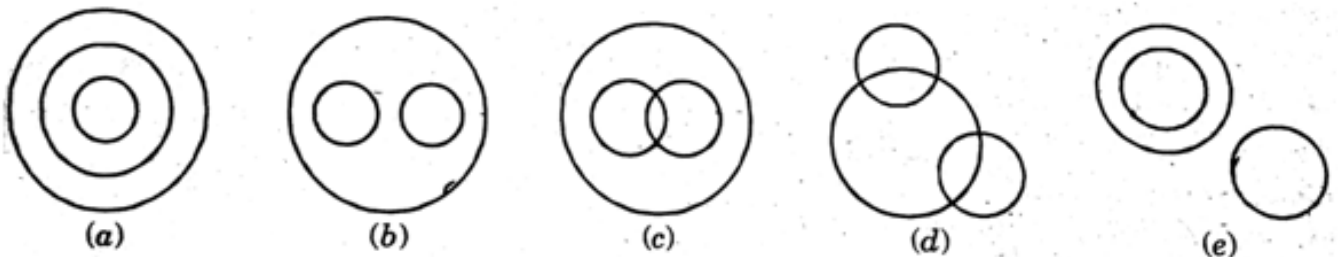
10. TRIED

- 1) ukfhr 2) ubovc 3) ukhbp 4) ukorc

11. RACE

- 1) kovp 2) kbcf
 3) khfo 4) krbh

Directions (Q.No-12 to 13) : Each of the following questions below contains three elements. These three elements may or not have some linkage. Each group of the elements may fit into one of the diagrams at (a), (b), (c), (d) and (e). You have to indicate groups of elements in each questions fit into which of the diagram given below. The letter indicating the diagram is the answer.



12. Sea, Island, Mountain

- 1) e
- 2) b
- 3) c
- 4) d

13. Musicians, Instrumentalists, Violinists

- 1) a
- 2) b
- 3) e
- 4) d

Directions (Q.No-14-16) : In each of the following questions, four numbers have been given out of which three are alike in some manner, while the fourth one is different. Choose out the odd one.

- 14. a) 21 : 6 b) 28 : 4 c) 42 : 12 d) 84 : 24**

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

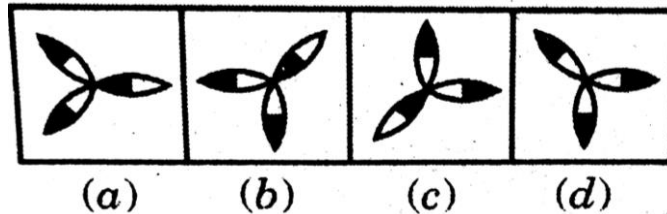
- 15. a) 15 : 63 b) 22 : 91 c) 23 : 95 d) 31 : 97**

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

- 16. a) (52, 142) b) (54, 126) c) (56, 168) d) (58, 184)**

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

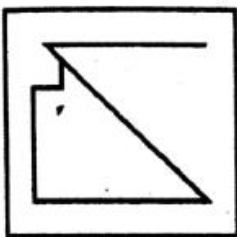
17. Figure Classification



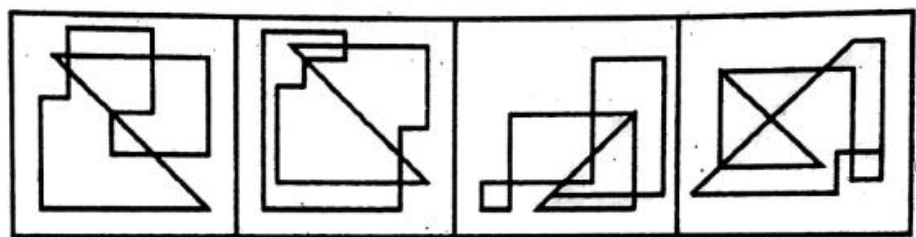
- 1) a
- 2) b
- 3) c
- 4) d

Directions (Q. No: 18): Embedded Figure

18.

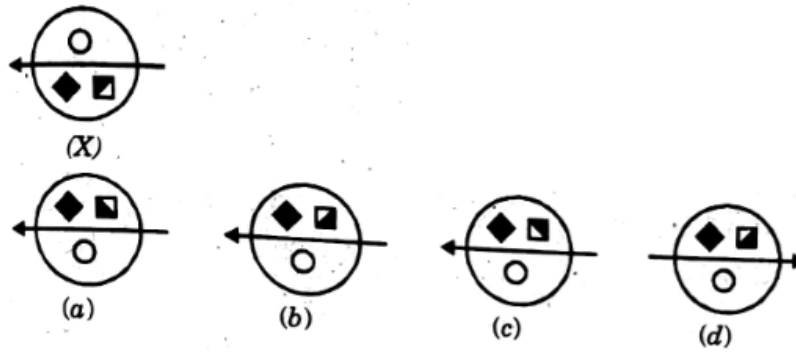


(X)



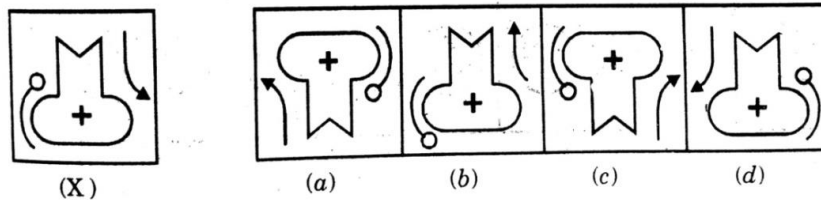
- 1) a
- 2) b
- 3) c
- 4) d

19. Directions : water image



- 1) a 2) b 3) c 4) d

20. Directions : Mirror image

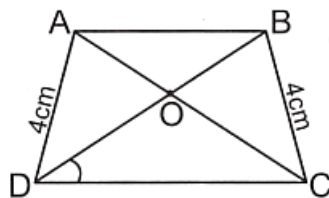


- 1) a 2) b 3) c 4) d

MATHEMATICS (Q.NO.21 TO 35)

- 21. Value of n for which $2n - 1$ is a negative integer**
 1) 1 2) 2 3) 3 4) 0
- 22. If the difference of an integer a and (-9) is 5, then**
 1) 4 2) 5 3) -4 4) -9
- 23. $(4^0 + 4^{-1}) \times 2^2 =$**
 1) 1 2) 4 3) 5 4) 16
- 24. What is the multiplicative identity element in the set of whole numbers?**
 1) 0 2) 1 3) -1 4) Doesn't exist
- 25. The number which is to be added to 0.01 to get 1.1, is**
 1) 1.11 2) 1.09 3) 1 4) 0.10
- 26. The product of a monomial and binomial is**
 1) Monomial 2) Binomial 3) Trinomial 4) None
- 27. The number which is divisible by 8 but not by 6 is**
 1) 35610 2) 124672 3) 52183 4) 369276
- 28. Two supplementary angles are in the ratio 3 : 2. The smaller angle measures**
 1) 108° 2) 81° 3) 72° 4) 68°

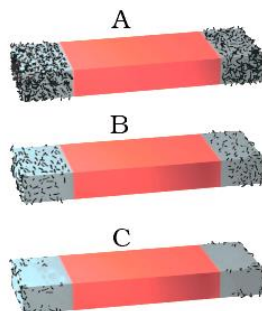
29. If $2x + 210 = 260^\circ$, where x is an acute angle, then the complement of the angle x is
 1) 60° 2) 75° 3) 65° 4) 70°
30. The boys and girls in a school are in the ratio 9 : 5. If the number of girls is 320, then the total strength of the school is
 1) 840 2) 896 3) 920 4) 576
31. If $\frac{x}{2} - 1 = 3$, then $x =$
 1) 6 2) 8 3) 4 4) $\frac{3}{2}$
32. The number of trees in different parks of a city are 33,38,48,33,34,34,33 and 24. The mode of this data is
 1) 24 2)34 3)33 4)48
33. Area of a right-angled triangle is 30cm^2 . If its smallest side is 5 cm. then its hypotenuse is
 1) 14 cm 2) 13 cm 3)12 cm 4)11 cm
34. A black board of side 5m 20cm and 3m 40cm is to be painted. Then the cost at the rate of Rs.12 per sq. metre is
 1) Rs. 218.16 2) Rs. 212.16 3) Rs. 220.18 4) Rs.211.11
35. From the figure, the pair of congruent triangles is



- 1) $\triangle AOB \cong \triangle BOC$ 2) $\triangle DOC \cong \triangle AOB$
 3) $\triangle ADB \cong \triangle CBD$ 4) None of these

PHYSICS (Q.NO.36 TO 50)

36. Three magnets A, B and C were dipped one by one in a heap of iron filing. Fig. 13.3 shows the amount of the iron filing sticking to them.



The strength of these magnets will be

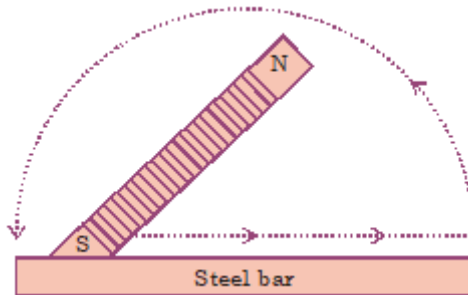
1) $A > B > C$

2) $A < B < C$

3) $A = B = C$

4) $A < B > C$

37. A permanent bar magnet is rubbed many a times on a steel bar as shown in figure. The end A of the steel bar acquires :



1) South polarity

2) North polarity

3) non polarity

4) none of the above

38. The magnet is strongest near the-

1) on equator point from the poles of the magnet

2) ends of the magnet

3) center of magnet

4) None of the above

39. Winds which affect movement of storms and should be known to both meteorologist as well as pilots are the

1) Jet stream

2) westerlies

3) trade winds

4) polar easterlies

40. Most hurricane and tropical storm deaths occur due to:

1) Lightning

2) Tornadoes

3) Severe Wind

4) Flooding

41. A metal cuboid of length 12m breadth 6 m and height 3m is melt and recast into a cube then the side of the cube is

1) 8 m

2) 4 m

3) 6 m

4) 12 m

42. 1 Hectare = _____ mm^2

1) 10^8 2) 10^{10} 3) 10^6 4) 10^{-6}

43. In S.I system

- 1) All derived units are obtained by multiplying (or) dividing the fundamental units
- 2) All derived units are obtained by adding the fundamental units
- 3) All derived units are obtained by subtracting the fundamental units
- 4) All derived units are obtained only by multiplying the fundamental units

44. A particle is moving in a circle of radius 'r' with a constant speed 'v' . Then change in velocity after the particle has travelled a distance equal to $\left(\frac{1}{8}\right)$ of the circumference of the circle is:

- 1) Zero
- 2) 0.500v
- 3) 0.765v
- 4) 0.125v

45. If two balls of same density but of different masses are dropped from a height of 100 m, then

- 1) Both will come together on the earth
- 2) Both will come late on the earth
- 3) First will come first and second after that
- 4) Second will come first and first after that

46. The minimum requirement for causing flow of electric current are:

- 1) A voltage source, a resistor and a switch.
- 2) A voltage source and a conductor.
- 3) A power source an bulb.
- 4) A voltage source, a conductor, an ammeter and switch.

47. An electric filament bulb can be worked from

- 1) D.C. supply only
- 2) A.C. supply only
- 3) Battery supply only
- 4) All of these

48. The filament of an electric bulb is made of

- 1) Carbon
- 2) Aluminium
- 3) Tungsten
- 4) Nickel

49. Heat always flows from

- 1) Higher temperature to lower temperature.
- 2) Lower temperature to higher temperature.
- 3) Sometimes higher to lower and lower to higher temperature.
- 4) All of these

50. When a liquid in a container is heated

- 1) Both the liquid and its container expand.
- 2) Only container expands.
- 3) Only liquid expands.
- 4) Neither liquid nor container expands.

CHEMISTRY (Q.NO.51 TO 65)**51. The percentage of Nitrogen in air is**

- 1) 21%
- 2) 0.03%
- 3) 78%
- 4) 0.01%

52. When the temperature is low the volume of water vapour _____ in air.

- 1) Decreases
- 2) Increases
- 3) Constant
- 4) None of these

53. The atmosphere consists mainly ____

- 1) Oxygen and Nitrogen
- 2) Nitrogen and Hydrogen
- 3) Hydrogen and Oxygen
- 4) Carbon and Hydrogen

54. Water exists in how many states

- 1) 1
- 2) 3
- 3) 2
- 4) 4

55. Litmus paper (Blue, Red) on water any change in colour

- 1) It turns Blue to Red
- 2) It turns Red to Blue
- 3) It turns Red to Yellow
- 4) No change

56. Carbon dioxide react with water to form?

- 1) Nitric Acid
- 2) Sulphuric Acid
- 3) Nitrous Acid
- 4) Carbonic Acid

57. The cater pillar of silk moth enters a stage called _____

- 1) Larva
- 2) Pupa
- 3) Caterpillar
- 4) Loom

58. Wool can be obtained from

- 1) Sheep
- 2) Goat
- 3) Yak
- 4) All of these

59. From silk worms we get _____ fibre

- 1) Wool
- 2) Silk
- 3) Cotton
- 4) Artificial

60. The acids obtained from the plants or animals are called:

- 1) Acidity of Base
- 2) Basicity of an acid
- 3) Organic acids
- 4) Inorganic acid

61. $2\text{Mg} + \text{X} \rightarrow 2\text{MgO}$ Then find 'X'?

- 1) O_2
- 2) O_3
- 3) CO_2
- 4) CO

62. Stomach secretes

- 1) H_2SO_4 2) HCl 3) CH_3COOH 4) HNO_3

63. Physical change can be generally

- 1) Reversible 2) Irreversible 3) Perpendicular 4) Both 1 and 2

64. The wax on heating changes into_____ state:

- 1) Solid 2) Liquid
3) Gaseous 4) Molten

65. Which of the following is an example of Fast change?

- 1) Growth of plants 2) Bursting of balloon
3) Milk changes to curd 4) Cooking of rice

BIOLOGY (Q.NO.66 TO 80)

66. Sharp claws along with strong hooked beaks help the following birds in their feeding process.

- 1) parrot 2) crane 3) vulture 4) wood pecker

67. The birds which are called natural scavengers are :

- 1) hens 2) crows 3) parrots 4) pigeons

68. A leech holds the host with the help of _____ and sucks blood :

- 1) setae 2) scales 3) teeth 4) suckers

69. The teeth that help a cow to hold and draw the grass are

- 1) upper teeth 2) molars 3) hind teeth 4) teeth in lower jaw

70. Flat worms are found in the of a pond.

- 1) surface 2) mid water 3) pond margin 4) bottom

71. This is not an animal whose habitat is pond.

- 1) flat worms 2) lizards 3) snails 4) pond skater

72. The tiny creature whose habitat is the bottom of a tree is

- 1) ant 2) maggot 3) pond scater 4) beetle

73. A form of aquatic habitat

- 1) desert 2) plateau 3) marshes 4) high lands

74. In plants having tap root system, the venation is :

- 1) parallel 2) perpendicular 3) reticulate 4) bean shaped

75. The upper part of a pistil is called :

- 1) ovary 2) stigma
3) style 4) pedicel

76. These help in fixing the plant to the soil :

- 1) branches 2) nodes 3) roots 4) shoots

77. Moving air is called :

- 1) Wind 2) Storm 3) Thunders 4) Cyclone

78. With the help of _____, we can measure wind speed and direction.

- 1) Thermometer 2) Anemometer 3) Pyrometer 4) Barometer

79. The plant which exhibits heterotrophic nutrition is :

- 1) Balsam 2) Cuscuta 3) Cucumber 4) Drosera

80. Organisms share their food and shelter between themselves.

- 1) Insectivorous 2) carnivorous 3) symbiosis 4) none of these