



CLASS-VI	AARAMBH	DATE: 04-10-19
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)

- 3,20,63,144,275 ?**
1) 354 2) 468 3) 548 4) 554
- 4832, 5840, 6848 ?**
1) 7815 2) 7846 3) 7856 4) 7887
- 240,?, 120,40,10,2**
1) 180 2) 240 3) 420 4) 480
- __ bbca __ bcca __ ac __ a __ cb**
1) abcba 2) acbab 3) bacab 4) bcaab
- m __ nm __ n __ an __ a __ ma __**
1) aamnan 2) ammanm 3) aammnn 4) amammn
- b __ b __ bb __ bbb __ bb __ b**
1) bbbba 2) bbaaab 3) ababab 4) aabaab
- If GO=32, SHE=49, then SOME will be equal to**
1) 56 2) 58 3) 62 4) 64
- If DRIVER=12, PEDESTRIAN=20, ACCIDENT=16, then CAR=?**
1) 3 2) 6 3) 8 4) 10

Directions: (9-10): On the basis of the information provided below.

All the roads of a city either perpendicular or parallel to one another. The roads are all straight. Roads A, B, C, D and E are parallel to one another. Roads G, H, I, J, K, L and M are parallel to one another.

- (i) Road A is 1 km east of road B.
- (ii) Road B is $\frac{1}{2}$ km west of road C.
- (iii) Road D is 1 km west of road E.
- (iv) Road G is $\frac{1}{2}$ km south of road H.
- (v) Road I is 1 km north of road J.
- (vi) Road K is $\frac{1}{2}$ km north of road L
- (vii) Road K is 1 km south of road M

9. Which is necessarily true?

- 1) E and B intersect
- 2) D is 2 km west of B
- 3) D is at least 2 km west of A
- 4) M is 1.5 km north of L

10. If E is between B and C, which of the following is false?

- 1) D is 2 km west of A
- 2) C is less than 1.5 km from D.
- 3) Distance from E to B added to distance of E to C is $\frac{1}{2}$ km
- 4) E is less than 1 km from A

Directions : (11 to 12): Find out which of the letter-series follows the given rule.

11. Number of letters skipped in between adjacent letters in the series doubles every time

- 1) ADIPY
- 2) BDGLU
- 3) EGJOF
- 4) GJNSY

12. The number of letter missed is not uniform

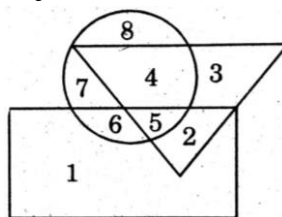
- 1) BFJNRV
- 2) DGJMPS
- 3) MORTXY
- 4) PRTVXZ

13. Two buses start from the opposite points of a main road, 150 kms apart. The first bus runs for 25 kms and takes a right turn and then runs for 15 kms. It then turns left and runs for another 25 kms and takes the direction back to reach the main road. In the meantime, due to a minor breakdown, the other bus has run only 35 kms along the main road. What would be the distance between the two buses at this point?

- 1) 65 kms
- 2) 75 kms
- 3) 80 kms
- 4) 85 kms

Directions (Q.No-14 to 16) : In the following questions, answers are to be Based on the diagram given below, where the triangle represents doctors,

The circle represents players and the rectangle represents artists.



14. Which numbered space in the diagram represents doctors who are also players and artists ?

- 1) 2 2) 3 3) 4 4) 5

15. Which number represents artists who are neither players nor doctors ?

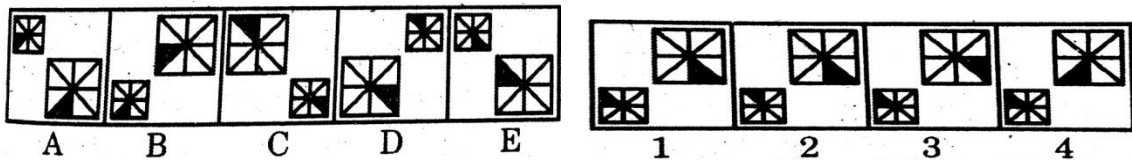
- 1) 1 2) 2 3) 3 4) 4

16. Which number represents players who are neither artists nor doctors ?

- 1) 1, 2 2) 3, 4 3) 6, 7 4) 7, 8

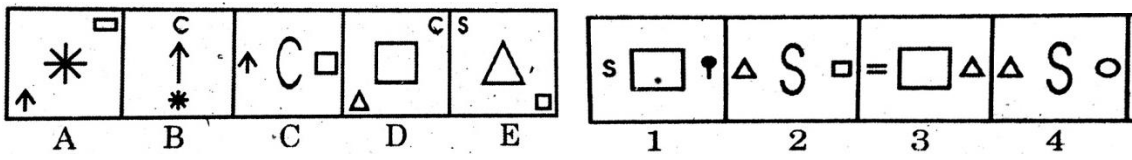
FIGURE SERIES(17-18)

17.



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

18.



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

Directions (Q. No: 19) Mirror Images.

19.

UTZFY6KH

(a) HK9YFZLU

(b) UTZFY9KH

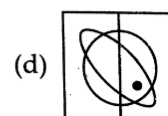
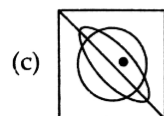
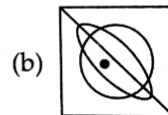
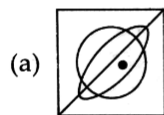
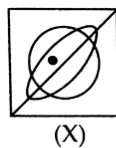
(c) HK9YFZLU

(d) HK9YFZLU

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

Directions (Q. No: 20) Water Images.

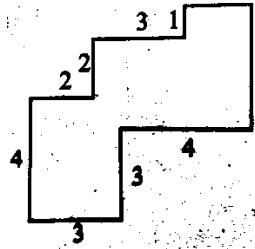
20.



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

MATHEMATICS (Q.NO.21 TO 35)

21. By splitting the following figures into rectangles, then the area of the figure is



- 1) 26cm^2 2) 28cm^2 3) 27cm^2 4) 22cm^2
22. Quadrilateral is a polygon formed by _____ line segments
 1) 6 2) 8 3) 5 4) 4
23. A person’s monthly salary is Rs. 25,500. If he spends Rs. 4,500 on rent, Rs.4,800 on food, Rs.5,100 on travelling and Rs.6,000 on medicines, then the fraction of savings is
 1) $1/3$ 2) $2/3$ 3) $1/4$ 4) $1/5$
24. 0.99,9.90,9.09,0.90,0.909 arranged in descending order are
 1) 9.09,0.99,9.90,0.90,0.909 2) 9.90,9.09,0.99,0.909,0.90
 3) 9.90,0.99,0.909,9.09,0.90 4) 9.09,9.90,0.99,0.909,0.90
25. Shyam walks 9 km every day. How much distance does he walk in 17 days ?
 1) 151 2) 152 3) 153 4) 154
26. 846200 copies of a book were equally packed in 20 bundles. How many copies of the book were packed in each bundle?
 1) 42308 2) 42309 3)42310 4) 42311
27. If $15\frac{x}{6} + 18\frac{2}{3} = 34\frac{1}{2}$ then x =
 1) 4 2) 5 3) 6 4) 7
28. Find an integer a such that $a + (-4) = 0$.
 1) 0 2) 4 3) -4 4) None of these
29. Read the pictograph and answer the questions given below:

JUNE	
JULY	
AUGUST	
SEPTEMBER	
OCTOBER	
NOVEMBER	

Based on Pictograph, the months in which the birth of boys is more than that of girls?

- 1) November 2) October 3) September 4) June

30. Bob wants to cover the floor of a room 3m wide and 4m long by squared tiles. If each square tile is of side 0.5m, then the number of tiles required to cover the floor of the room is
- 1) 48 2) 46 3) 44 4) 42
31. A chord which passes through the centre is called
- 1) radius 2) diameter 3) arc 4) secant
32. If $\frac{3}{x} \times \frac{8}{6} \times \frac{12}{9} = \frac{4}{3}$ and $\frac{2}{7} \times \frac{y}{9} \times \frac{27}{4} = 3$, then $\frac{x}{y}$ is
- 1) $\frac{7}{2}$ 2) $\frac{2}{7}$ 3) $\frac{14}{8}$ 4) $\frac{8}{14}$
33. If $2\frac{1}{6} + 3\frac{5}{6} + 10\frac{1}{6} = y$, then $y + 4\frac{1}{6} =$
- 1) $20\frac{1}{6}$ 2) $20\frac{2}{3}$ 3) $20\frac{1}{3}$ 4) $20\frac{1}{5}$
34. Insert two fractions in between $\frac{3}{8}$ and $\frac{5}{7}$ is /are
- 1) $\frac{13}{22}, \frac{5}{6}$ 2) $\frac{8}{11}, \frac{11}{15}$ 3) $\frac{21}{37}, \frac{21}{20}$ 4) $\frac{21}{37}, \frac{14}{31}$
35. Insert three fractions in between $\frac{7}{12}$ and $\frac{10}{11}$ are
- 1) $\frac{31}{47}, \frac{24}{35}, \frac{27}{34}$ 2) $\frac{17}{23}, \frac{23}{25}, \frac{7}{24}$ 3) $\frac{11}{18}, \frac{5}{12}, \frac{17}{19}$ 4) $\frac{12}{15}, \frac{11}{12}, \frac{17}{19}$

PHYSICS (Q.NO.36 TO 50)

36. The plane containing the reflected ray and the normal is called
- 1) plane of reflection 2) reflected ray
3) angle of reflection 4) plane of incidence
37. A smooth polished surface from which regular reflection can take place.
- 1) Mirror 2) Lens 3) Wall 4) Wood
38. The light ray striking the reflecting surface is called
- 1) Incident ray 2) Reflected ray 3) Normal 4) All the above
39. The short form of kilogram is
- 1) ki 2) kg 3) kilo 4) km
40. The act of measuring the quantity required is called
- 1) physics 2) physical quantity
3) measurement 4) devise
41. Which of the following is an appropriate unit for measuring length of the table?
- 1) centimetre 2) gram 3) kilogram 4) second
42. A particle completes half a revolution along a circular path of radius 'r' the distance travelled by the particle is
- 1) πr 2) $2\pi r$ 3) $3\pi r$ 4) $4\pi r$

43. A small group of stars is called _____.
1) milky way 2) galaxy 3) constellation 4) solar system
44. Solar system consists of
(a) stars (b) planets
(c) sun (d) moons
1) only a 2) only a and b 3) only b and c 4) only b, c and d
45. A football player runs 2 metre and kicks the football. The force involved here is
1) muscular force 2) Electrostatic force 3) Magnetic force 4) Nuclear force
46. A ball rolling on the floor stops after some time because of
1) Frictional force 2) Electric force 3) Physical force 4) Mechanical force
47. The path which light energy travels in a given direction is called
1) beam of light 2) source of light 3) ray of light 4) can't say
48. Which of the following is the example of optical medium?
1) Wood 2) Furniture 3) Brick 4) Glass
49. _____ motion is repetitive and fluctuates between two locations
1) Oscillatory 2) Random 3) Rectilinear 4) All of these
50. An object is said to be in _____ if it changes direction in an irregular manner
1) Oscillator motion 2) Random motion 3) Circular motion 4) Rectilinear motion

CHEMISTRY (Q.NO.51 TO 65)

51. What is meant by sublimation process
1) Conversion of solid form of substance to liquid form
2) Conversion of liquid form of substance to gaseous form
3) Conversion of solid form of substance to gaseous form directly without liquid state below its melting point
4) Conversion of solid form of substance to gaseous form through liquid state above its melting point
52. A solid - solid mixture of Sodium nitrate and Sodium chloride can be separated through the method of:
1) Dissolution 2) Fractional crystallisation
3) Magnetic separation 4) Fusion
53. The clear liquid above the sediment, when a suspension is allowed to stand undisturbed is called (A) and the insoluble solid material is called (B)
1) A → Supernatant liquid, B Sediment 2) A → Filtrate, B Residue
3) A → Decantate, B Sediment 4) A → Residue, B Filtrate
54. The process of making a Fabric by interlocking loops of single yarn with knitting needles or machines, is called _____
1) spinning 2) wearing 3) knitting 4) orling
55. The weaving of yarn to make fabric is done by using ____
1) needles 2) looms 3) forks 4) forceps

56. Flax is a _____
- 1) natural fibre 2) Artificial fibre 3) man made fibre 4) synthetic fibre
57. Water cycle is the process of
- 1) Boiling ,melting 2)Evaporation, Condensation
3) Sublimation, Evaporation 4) Boiling, Freezing
58. Water gas is the combination of
- 1) $\text{CO} + \text{N}_2$ 2) $\text{CO} + \text{CO}_2$ 3) $\text{CO} + \text{H}_2$ 4) $\text{CO}_2 + \text{H}_2$
59. 4 Mole of water formed by
- 1) 2 mole of oxygen 2 mole of Hydrogen 2) 3 mole of oxygen 2 mole of Hydrogen
3) 2 mole of oxygen 2 mole of Hydrogen 4) 3 mole of oxygen 4 mole of Hydrogen
60. Which of the following is inactive at ordinarily
- 1) Oxygen 2) Nitrogen
3) Carbon di oxide 4) Carbon mono oxide
61. When the temperature is low the volume of water vapour _____ in air.
- 1) Decreases 2) Increases 3) Constant 4) None of these
62. Which of the following is correct statement?
- A) We can live with out air.
B) Air is necessary for burning or combustion of objects
- 1) A is correct B is incorrect
2) B only correct
3) A only correct
4) A is incorrect and B is incorrect
63. An increase in percentage of the gases carbon dioxide, methane in the atmosphere would cause the average temperatures to increase world wide and this is called _____effect
- 1) carbon cycle 2) green house 3) geochemical 4) water cycle
64. Who started chipko movement
- 1) Henry cavendish 2) Lavoisier
3) Sunder lal Bahuguna 4) Robert Boyle
65. The intensity of an earthquake is measured by
- 1) Seismo graph 2) Wind meter 3) Vector scale 4) Simple graph

BIOLOGY (Q.NO.66 TO 80)

- 66. An example of condiments_____**
1) Elaichi 2) Almonds 3) Cashew nuts 4) Kismis
- 67. Peanuts contain _____**
1) Carbohydrates 2) proteins 3) Fats 4) Oils
- 68. Which of the following parts is not an aerial part of the plant?**
1) Leaves 2) Flower 3) Tuberos stem 4) Branch
- 69. Which of the following plant does not possess tap root system ?**
1) Neem 2) Rice plant 3) Guava 4) Mango
- 70. The number of root systems**
1) 1 2) 2 3) 3 4) 4
- 71. The plants in which food is stored in their roots are called**
1) Tap root 2) Tuberos root 3) Fibrous root 4) none of these
- 72. Example for tuberous root**
1) Carrot 2) Raddish 3) Beetroot 4) All of these
- 73. The long vein present in the middle of the leaf is**
1) Midrib 2) Lamina 3) Vein 4) Petiole
- 74. Which is not a part of a leaf**
1) Lamina 2) Veins 3) Nodes 4) Petiole
- 75. Parallel venation is not found in**
1) Peepal 2) Wheat 3) Maize 4) Sugar cane
- 76. What does every food web begin with?**
1) Decomposers 2) Air 3) Sunlight 4) Nutrients
- 77. In which of the following eco systems the animals have thick fur coats for protection from cold?**
1) Mountain 2) Grassland 3) Aquatic 4) Fresh water
- 78. What is an ecosystem?**
1) The pattern of weather that affects a particular area.
2) The life cycle of a plant from seed to flower.
3) All living things in a particular environment, like a forest or a desert.
4) A community of animals and plants that interact with their environment

79. Which of the following is a characteristic of a desert?

- 1) Flowers bloom for eight weeks a year.
- 2) It is home to rhinos and zebras.
- 3) It has four seasons,
- 4) It is very hot and very dry.

80. What happens if a portion of food chain is broken?

- 1) Only consumers would be affected.
- 2) All the organisms in the chain are affected.
- 3) The decomposers and producers are affected.
- 4) No change.