



<b>CLASS-VI</b>	<b>AARAMBH</b>	<b>DATE: 01-10-19</b>
<b>Max. Time: 120 min</b>		<b>Max marks: 320</b>

**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)**

- e j o t y d i n s x c h ?**  
1) nrw                      2) mrw                      3) msx                      4) nsx
- b e d f ? h j ? l**  
1) i m                      2) m k                      3) i n                      4) j m
- ATTRIBUTION, TTRIBUTIO, RIBUTIO, IBUTI, ?**  
1) IBU                      2) UT                      3) UTI                      4) BUT
- J, F, M, A, ?**  
1) M                      2) S                      3) X                      4) A
- \_ acca \_ ccca \_ accc \_ aaa**  
1) acca                      2) caaa                      3) ccaa                      4) caac
- A D A C B \_ \_ B D C C**  
**1 3 \_ \_ 1 2 4 2 \_ \_ \_ \_**  
**a \_ \_ b \_ \_ c d ? ? ? ?**  
1) a,c,d,d                      2) a,d,c,c                      3) c,a,d,d                      4) d,c,a,a

**Directions (Questions 7-8):** In a certain coding system, '816321' means 'the brown dog frightened the cat; '64851' means 'the frightened cat ran away'; '7621' means 'the cat was brown'; '341' means 'the dog ran'.

- What is the code for 'the dog was frightened'?**  
1) 5438                      2) 8263                      3) 8731                      4) None of these
- What is the code for 'brown' ?**  
1) 2                      2) 4                      3) 6                      4) 8

**Directions (Questions 9-10): Read the following information carefully and answer the questions given below:**

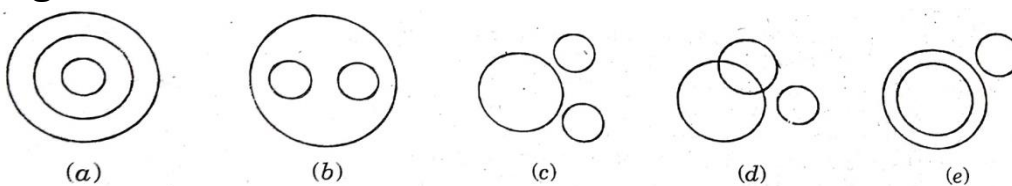
**A, B, C, D, E, F and G are seven students in a class. They are sitting on three benches I, II and III in such a way that there are at least two of them on each bench and there is at least one girl on each bench. C, a girl student, does not sit with A, E and D. F, a boy student, sits with only B. A sits with his best friend in bench I. G sits on bench II. E is brother of C.**

- 9 . On which bench do three students sit**  
 1) I                                      2) II                                      3) III                                      4) I or II
- 10. Which of the following is a group of girls?**  
 1) BAC                                      2) BCD                                      3) BFC                                      4) CDF

**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 is two**  
 1) MPSVYBE                              2) QSVYZCF                              3) SVZCGJN                              4) ZCGKMPR
- 12. Number of letters skipped in between the adjacent letters in the series is equal**  
 1) HKNGSW                              2) RVZDFG                              3) RVZDHL                              4) SUXADF
- 13. Deepa moved a distance of 75 metres towards the north. She then turned to the left and walking for about 25 metres, turned left again and walked 80 metres. Finally, she turned to the right at an angle of 45°. In which direction was she moving finally?**  
 1) North-east                              2) North-west                              3) South                                      4) South-west

**Directions (Q.No-14 to 16) : 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.**



- 14. Table, Chair, Furniture**  
 1) a                                      2) b                                      3) e                                      4) d

**15. Judge, Thief, Criminal**

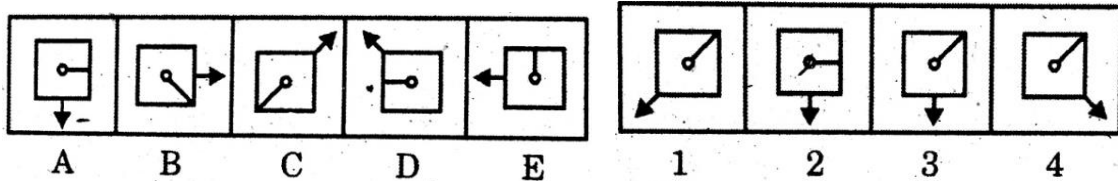
- 1) a                                      2) b                                      3) c                                      4) e

**16. Anxiety, Intelligence, Strength**

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

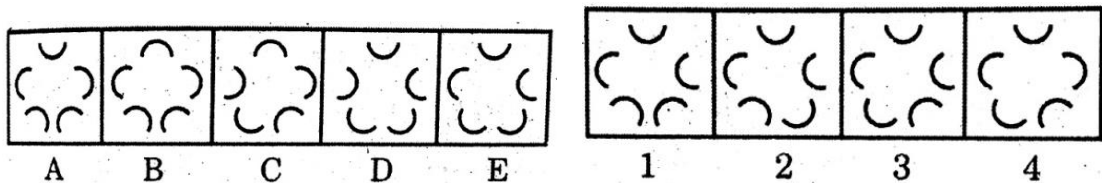
**FIGURE SERIES(17-18)**

17.



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

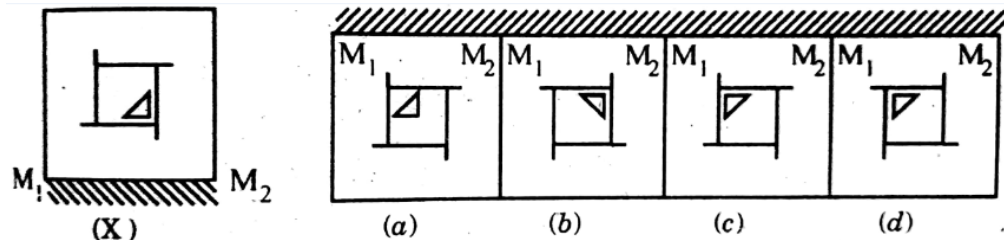
18.



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

**Directions (Q. No: 19): Mirror Image.**

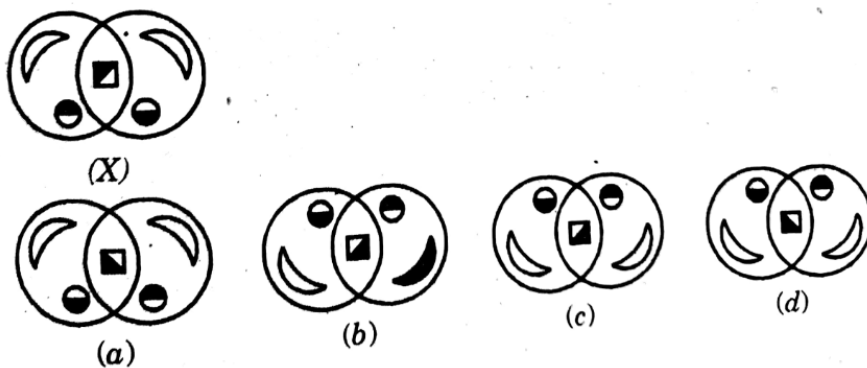
19.



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

**Directions (Q. No: 20): Water Image**

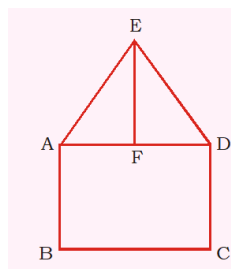
20.



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

**MATHEMATICS (Q.NO.21 TO 35)**

21. The length and breadth of a rectangular field are 120 m and 80 m respectively. Inside the field, a park of 12 m width is made around the field. The area of the park is  
 1)  $2358\text{m}^2$                       2)  $7344\text{m}^2$                       3)  $4224\text{m}^2$                       4)  $3224\text{m}^2$
22. How many lines can pass through two given points?  
 1) 1                                      2) 2                                      3) 3                                      4) Infinite
23.  $5 \times 10^3 + 4 \times 10^2 + 6 \times 10 + \frac{9}{10} + \frac{8}{100} + \frac{8}{1000}$  is simplified, then the answer is  
 1) 5460.988                      2) 546.988                      3) 54600.889                      4) 5460.8098
24. The perimeter of a figure is 25 cm, then the length of the unknown sides is  
 1) 11.1 cm                      2) 11.4 cm                      3) 11.2 cm                      4) 11.3 cm
25. The estimate of product of 23 and 72 by rounding to nearest tens is  
 1) 140000                                      2) 1400  
 3) 140000                                      4) None of the above
26. A number is divided by 15. The remainder cannot be :  
 1) 11                                      2) 13                                      3) 9                                      4) 15
27. An astronaut who weight 86 kg on Earth would weigh  $14\frac{1}{3}$  kg on moon. What is the astronauts' weight on moon written as an improper fraction ?  
 1)  $\frac{14}{3} \text{ kg}$                       2)  $\frac{14}{6} \text{ kg}$                       3)  $\frac{43}{6} \text{ kg}$                       4)  $\frac{43}{3} \text{ kg}$
28. The sum of two integers is 45. If one of them is -23, the other is :  
 1) 68                                      2) 22                                      3) -68                                      4) -22
29. In the given table the number of eggs are eaten by various students
- | Student       | No of eggs |
|---------------|------------|
| Swaropa       | 25         |
| Sushmitha     | 15         |
| Krishna priya | 10         |
| Likitha       | 9          |
- The number of eggs which are eaten by Sushmita and Krishna priya? \_\_\_\_\_  
 1) 25                                      2) 19                                      3) 15                                      4) 10
30. In the given figure ABCD is a square,  $AC = BD = 4\sqrt{2}\text{cm}$  ,  $AE = DE = 2.5 \text{ cm}$  and  $AB^2 + AD^2 = BD^2$



Read the above diagram, Area of ABCD is

- 1)  $16\text{cm}^2$                       2)  $14\text{cm}^2$                       3)  $17\text{cm}^2$                       4)  $12\text{cm}^2$
31. Number of lines that can be drawn from a given point \_\_\_\_\_  
 1) two                              2) one                              3) Infinite                              4) zero
32. If  $A = 235 + \frac{7}{10} + \frac{9}{100}$ ,  $B = 235 + \frac{7}{10} + \frac{6}{1000}$ ,  $C = 235 + \frac{8}{100} + \frac{6}{1000}$   
 $D = 235 + \frac{8}{1000} + \frac{6}{100}$  then the smallest one is  
 1) A                              2) B                              3) C                              4) D
33. What will come in place of the question mark in the following ?  
 $54.(?)3 + 543 + 5.43 = 603.26$   
 1) 8                              2) 6                              3) 4                              4) 0
34. The number of zeros in the product of  $40 \times 500$  is :  
 1) 5                              2) 3                              3) 2                              4) 4
35. What will be the remainder when 897342 is divided by 1000.  
 1) 340                              2) 341                              3) 342                              4) 343

### PHYSICS (Q.NO.36 TO 50)

36. Which of the following is a constellation?  
 (a) milky way                      (b) Orion                      (c) great bear  
 1) only a                      2) only b                      3) only b and c                      4) only a and c
37. Earth \_\_\_\_\_ about it's \_\_\_\_\_ and \_\_\_\_\_ around the \_\_\_\_\_.  
 1) rotates, axis, revolves, sun                      2) axis, revolves, sun, rotates  
 3) revolves, axis, rotates, sun                      4) rotates, sun, revolves, axis
38. 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
39. Force which changes the shape of an object is  
 1) mechanical force    2) frictional force    3) deforming force    4) electrostatic force
40. Assertion: Objects fall towards the Earth's surface  
 Reason : It is because of magnetic force.  
 1) Assertion is true; Reason is true and Reason is the correct explanation of Assertion  
 2) Assertion is true; Reason is true but Reason is not the correct explanation of Assertion.  
 3) Assertion is true; Reason is false.  
 4) Assertion is false; Reason is false.
41. A ball rolling on the floor stops after some time because of  
 1) Frictional force    2) Electric force    3) Physical force    4) Mechanical force
42. Bodies which do not allow the light energy to pass through them are called  
 1) transparent bodies    2) translucent bodies    3) opaque bodies    4) All of these
43. Clear water is example of  
 1) Heterogeneous medium                      2) Translucent medium  
 3) Transparent medium                      4) Opaque medium

44. Which of the following is the example of optical medium?  
1) Wood                      2) Furniture                      3) Brick                      4) Glass
45. 1mm = \_\_\_\_\_ cm.  
1) 10                      2) 1/10                      3) 100                      4) 1/100
46. Rotating blades of an electric fan undergoes  
1) Oscillatory                      2) Random                      3) Circular                      4) Rectilinear
47. 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
48. 20 cm = \_\_\_\_\_ km.  
1)  $1.2 \times 10^{-7}$                       2)  $1.4 \times 10^{-2}$                       3)  $0.2 \times 10^{-3}$                       4)  $0.9 \times 10^{-6}$
49. When a body moves in a straight line its motion is said to be  
1) 1Dimensional                      2) 2 Dimensional                      3) 3Dimensional                      4) 4Dimensional
50. Wind mill is an example of \_\_\_\_\_ motion  
1) Linear                      2) vibratory                      3) Rotatory                      4) Random

**CHEMISTRY (Q.NO.51 TO 65)**

51. Charcoal and limestone can be separated by gravity method. The principle behind the gravity method is:  
1) one of the components mixture is either lighter than the other or is soluble in water.  
2) different solids have different solubilities at a given temperature.  
3) one of the components should sublime on heating  
4) the components should not dissolve in one another.
52. Nickel and lead can be separated by:  
1) using gravity method                      2) using solvents  
3) distillation                      4) magnetic separation
53. From rocky material, iron is separated by  
1) using solvent                      2) using magnet  
3) using gravity method                      4) Sublimation
54. The cater pillar of silk moth enters a stage called \_\_\_\_\_  
1) Larva                      2) Pupa                      3) Caterpillar                      4) Loom
55. Which country is the pioneer in silk production ?  
1) India                      2) Africa                      3) America                      4) China
56. Acrylic is a \_\_\_\_\_  
1) Natural fibre                      2) Artificial fibre  
3) Blended fibre                      4) obtained from the nature
57. The ratio by mass of hydrogen and oxygen in water is  
1) 1 : 3                      2) 1 : 4                      3) 1 : 2                      4) 1 : 8
58. 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

59. **Freezing point of water is**  
1)  $4^{\circ}\text{C}$                       2)  $3^{\circ}\text{C}$                       3)  $10^{\circ}\text{C}$                       4)  $0^{\circ}\text{C}$
60. **The percentage of Nitrogen in air is**  
1) 21%                      2) 0.03%                      3) 78%                      4) 0.01%
61. **The presence of water vapour is essential for**  
1) Growth of plants    2) Growing hair            3) Sand                      4) Rocks
62. **The chemical formula of nitric oxide gas is**  
1)  $\text{NO}_2$                       2)  $\text{N}_2\text{O}$                       3)  $\text{N}_2$                       4) NO
63. **The atmosphere protects the earth from:**  
1) Harmful sunrays    2) Space aliens              3) Cyclonic storms        4) Thunders
64. **Aquatic animals and plants:**  
1) Breathe through the water.  
2) Will come out of water to breathe.  
3) Use the Oxygen dissolved in water to breathe.  
4) Do not breathe at all.
65. **Oxygen is produced by:**  
1) Plants during photosynthesis.                      2) Animals during respiration.  
3) Both by plants and animals.                      4) Natural sources.

**BIOLOGY (Q.NO.66 TO 80)**

66. **Ingredients such as lavang, dalchini, biryani, leaves and pepper etc., are called \_\_\_\_\_.**  
1) Dry fruits                      2) dry leaves                      3) condiments                      4) a and b
67. **People make different types of designs and decorations with vegetables. This is called \_\_\_\_\_.**  
1) Idols                      2) rhythu bazar                      3) market                      4) vegetable carving
68. **Eating foods with carotenoids can lower the risk of \_\_\_\_\_.**  
1) Cancer                      2) heart disease                      3) eye disease                      4) brain stroke
69. **Sugar syrup or honey is a good \_\_\_\_\_.**  
1) Tasty food                      2) preservatives                      3) sweet Foods                      4) medicines
70. **The method of \_\_\_\_\_ may give us tasty food but not healthy food.**  
1) Steaming                      2) Boiling                      3) raw                      4) Roasting
71. **In plants having tap root system, the venation is :**  
1) parallel                      2) perpendicular                      3) reticulate                      4) bean shaped
72. **The upper part of a pistil is called :**  
1) ovary                      2) stigma                      3) style                      4) pedicel
73. **The release of excess water from the plant in the form of water vapour is called**  
1) photosynthesis    2) respiration                      3) transpiration                      4) excretion
74. **Heart: Circulatory system:: \_\_\_\_\_ : Nervous system**  
1) Lungs                      2) Kidney                      3) Bones                      4) Brain
75. **Pick the odd one out.**  
1) Iodine                      2) Potassium                      3) Calcium                      4) Vitamin K

**76. Pick the odd one out**

- 1) Heart                      2) Blood                      3) Blood vessel                      4) Trachea

**77. Which of the following vitamin is known as 'clot master'?**

- 1) Vitamin A                      2) Vitamin B                      3) Vitamin K                      4) Vitamin D

**78. \_\_\_\_\_ is the largest biome.**

- 1) Taiga                      2) Tropical rainforest                      3) Desert                      4) Tundra

**79. What is the habitat of whale?**

- 1) Air                      2) Ocean                      3) Mountain                      4) Forest

**80. What is the living part of an ecosystem called?**

- 1) Producer                      2) Country                      3) Factory                      4) Community