



<b>CLASS-VI</b>	<b>AARAMBH</b>	<b>DATE: 03-10-19</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)**

**Directions (Q.No : 1-3) Find out the missing terms in the given series :**

**1. Find the next term in the alpha-numeric series**

**Z1A, X2D, V6G, T21J, R88M, P445P, ?**

- 1) N2676S                      2) N2676T                      3) T2670N                      4) T2676N

**2. 2A11, 4D13, 12G17, ?**

- 1) 36I19                      2) 36J21                      3) 48J21                      4) 48J23

**3. Q1F, S2E, U6D, W21C, ?**

- 1) Y44B                      2) Y66B                      3) Y88B                      4) Z88B

**4. cccbb \_ aa \_ cc \_ bbaa \_ c**

- 1) acbc                      2) baca                      3) baba                      4) acba

**5. \_ bcc \_ ac \_ aabb \_ ab \_ cc**

- 1) aabca                      2) abaca                      3) bacab                      4) bcaca

**6. aa \_ aaa \_ aaaa \_ aaaa \_ b**

- 1) baaa                      2) bbaa                      3) bbbb                      4) bbba

**Directions (Questions 7-8): In a certain code language,**

**(A) 'mxy das zci' means 'good little frock';**

**(B) 'jmx cos zci' means 'girl behaves good';**

**(C) 'nvg drs cos' means 'girl makes mischief';**

**(D) 'das ajp cos' means 'little girl fell'.**

**7. Which word in that language stands for 'frock'?**

- 1) zci                      2) das                      3) nvg                      4) None of these

8. Which of the given statements is superfluous and can be dispensed with while answering the above question?

- 1) A                      2) B                      3) C                      4) D

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

Six people A, B, C, D, E and F are sitting on the ground in a hexagonal shape. All the sides of the hexagon so formed are of same length. A is not adjacent to B or C; D is not adjacent to C or E; B and C are adjacent; F is in the middle of D and C.

9. Which of the following is not a correct neighbor pair?

- 1) A and F              2) D and F              3) B and E              4) C and F

10. Who is at the same distance from D as E is from D?

- 1) B                      2) C                      3) D                      4) F

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 decreases by one each time.

- 1) BHNSV              2) IMTXB              3) MSYBG              4) TZEIL

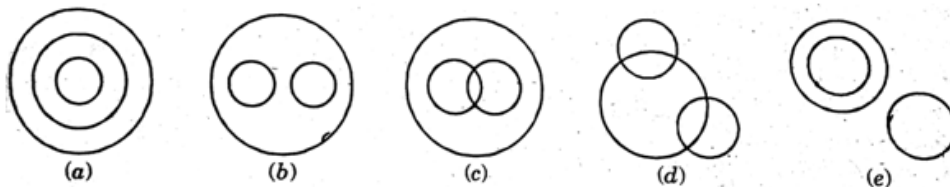
12. Number of letters in between each succeeding pair skip in a decreasing order from five down to one

- 1) AGKPSU              2) KPUZCE              3) MSXBEG              4) OTZDGI

13. A girl leaves from her home. She first walks 30 metres in North-west direction and then 30 metres in South-west direction. Next, she walks 30 metres in South-east direction. Finally, she turns towards her house. In which direction is she moving?

- 1) North-east              2) North-west              3) South-east              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. Sea, Island, Mountain

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

15. Musicians, Instrumentalists, Violinists

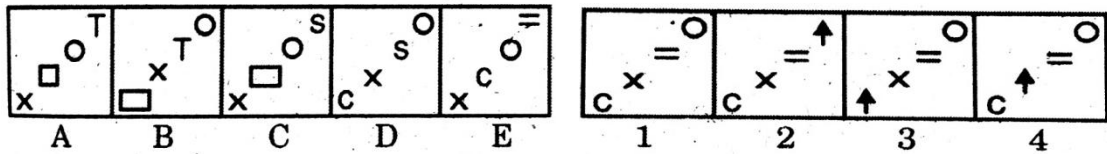
- 1) a                      2) b                      3) e                      4) d

**16. Factory, Machinery, Product**

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

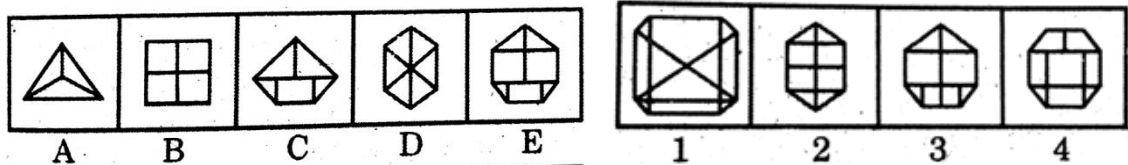
**FIGURE SERIES(17-18)**

17.



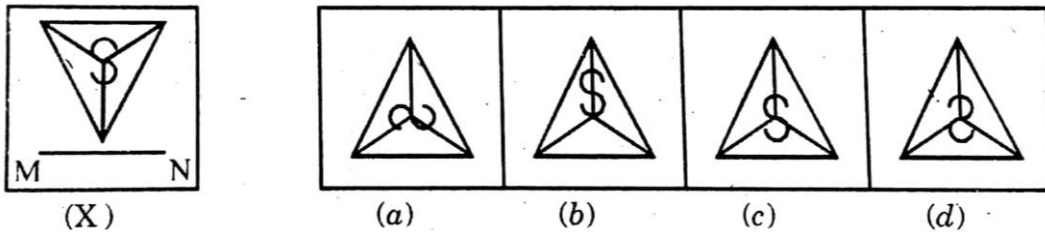
- 1) 1                      2) 2                      3) 3                      4) 4

18.



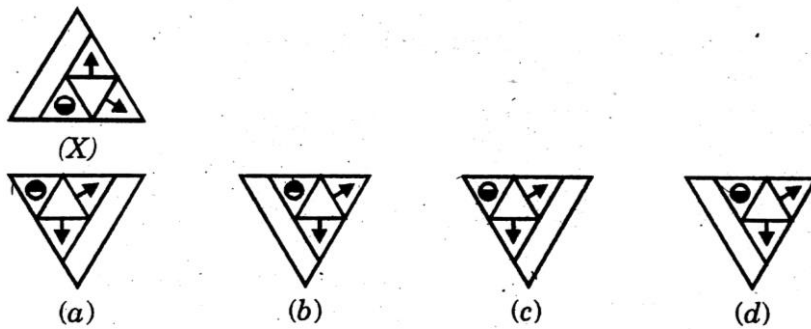
- 1) 1                      2) 2                      3) 3                      4) 4

**19. Find out the mirror image.**



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

**20. Find out the water image.**



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

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

21. 5206m-2051m expressed as km is

- 1) 31.55 km                      2) 3.155 km                      3) 0.3155 km                      4) 315.5 km

22. To build each section of the boundary wall of a housing society 2019 bricks are needed. The boundary wall has 57 sections. How many bricks are required to construct this boundary wall ?

- 1) 1,15,083                      2) 1,25,082                      3) 1,35,083                      4) 1,15,084

23. 187234 eggs are to be packed in trays with 20 eggs in each tray. How many complete trays can be packed ?

- 1) 9360                      2) 9361                      3) 9362                      4) 9363

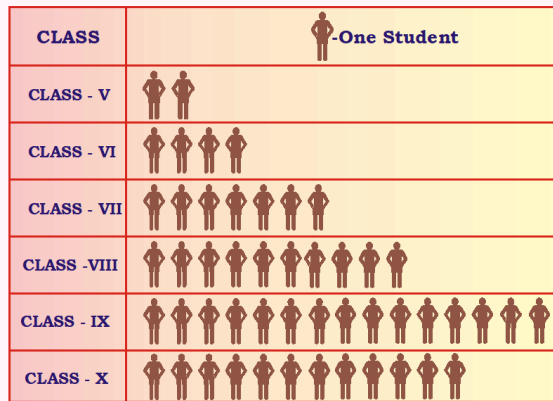
24. Naina bought a plant that was  $4\frac{2}{3}$  cm tall. In the first week, it grew  $1\frac{7}{8}$  cm and the next week it grew  $3\frac{1}{2}$  cm. Now how tall is Naina’s plant?

- 1)  $10\frac{1}{24}$                       2)  $10\frac{1}{22}$                       3)  $10\frac{1}{21}$                       4)  $10\frac{1}{23}$

25. Which statement is true ?

- 1) The sum of two negative integers is a positive integer
- 2) The sum of a negative integer and a positive integer always a negative integer
- 3) The sum of two negative integers is a negative integer
- 4) The sum of three different integers can never be zero.

26. Read the pictograph given below and answer the questions given there under.



The Class wise number of students coming to school by bicycle.

In all how many students come to school by bicycle ?

- 1)100                      2)50                      3) 60                      4) 70

27. If the length and breadth of a rectangle are 70cm and 50cm and the length and breadth are increased by 30cm and 50cm, then the perimeter of the new rectangle is

- 1) 4m                      2) 0.4m                      3) 40m                      4) 0.04m

28. If the radius of a circle is increased by 3 times, then the diameter increases by \_\_\_\_\_ times

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

29. If p is  $\frac{3}{4}$  of q and  $q = \frac{2}{3} + \frac{5}{9}$ , then value of p is

- 1)  $\frac{7}{8}$                       2)  $\frac{9}{8}$                       3)  $\frac{11}{9}$                       4)  $\frac{11}{12}$

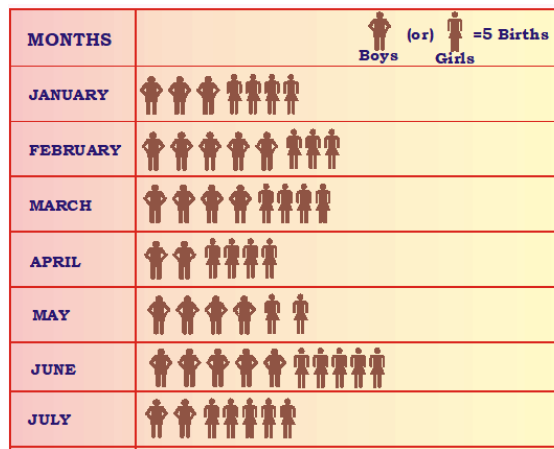
30.  $31.61 - 41.3145 + 503.73 - 253.61 =$

- 1) 240.4155                      2) 253.6100                      3) 294.9245                      4) 250.4015

31. You can plant 8 trees in a row. How many trees can you plant in 16 rows ?

- 1) 127                      2) 128                      3) 129                      4) 130

32. 351 chairs have to be equally arranged in 13 rows. How many chairs must be arranged in each row?  
 1) 27                                      2) 28                                      3) 29                                      4) 30
33. The sum of  $999\frac{1}{7} + 999\frac{2}{7} + 999\frac{3}{7} + 999\frac{4}{7} + 999\frac{5}{7} + 999\frac{6}{7}$  is  
 1) 5994                                      2) 5995                                      3) 5996                                      4) 5997
34. A car was driven 50 km due north of Delhi and the 70 km due south. How far from Delhi was the car finally ?  
 1) 120 km due south                                      2) 20 km due north  
 3) 120 km due north                                      4) 20 km due south
35. Read the pictograph and answer the questions given below:



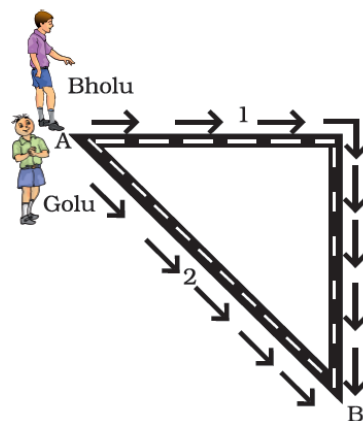
Based on Pictograph, number of boys and girls born in the months of January are

- 1) 5                                      2) 6                                      3) 7                                      4) 8

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

36. A tailor cuts a piece of cloth using a pair of scissors. The force involved here is  
 1) mechanical force                                      2) electrostatic force  
 3) magnetic force                                      4) Nuclear force
37. Assertion: Iron fillings get attracted to a magnet.  
 Reason: It is due to magnetic force.  
 1) Assertion is correct, reason is correct; reason is the correct explanation to assertion.  
 2) Assertion is correct but reason is incorrect.  
 3) Assertion and reason are correct ; reason is not the correct explanation to assertion.  
 4) Both the assertion and the reason are incorrect
38. A single straight line drawn from a point source, is called a  
 1) ray                                      2) bunch                                      3) both (1) and (2)                                      4) neither (1) nor (2)
39. By definition, any material (or) non-material through which light energy passes wholly (or) partially is called  
 1) Luminous body                                      2) Opaque medium                                      3) Non -luminous body                                      4) Optical medium
40. A ray of Light travels in  
 1) straight lines                                      2) curved lines  
 3) sometimes in straight lines sometimes in curved lines                                      4) can't say

41. **The point at which the incident ray strikes the reflecting surface is called**  
 1) point of incident    2) reflected ray    3) angle of reflection    4) plane of incidence
42. **The plane containing the incident ray and the normal is called**  
 1) point of incident    2) reflected ray    3) angle of reflection    4) plane of incidence
43. **The standard unit of time is**  
 1) metre    2) kilogram    3) second    4) quintal
44. **For smaller length we use**  
 1) metre    2) centimeter    3) kilometre    4) decimetre
45. **Watch is an instrument by which we can measure \_\_\_\_\_**  
 1) length    2) mass    3) time    4) gram
46. **The standard unit of mass is**  
 1) kilogram    2) gram    3) milligram    4) metre
47. **The short form of second is**  
 1) s    2) m    3) cm    4) kg
48. **The position of the particle going along a straight line is  $x = 50$  m at 10:30 a.m. and  $x = 55$  m at 10:35 a.m. The displacement between 10:30 a.m. and 10:35 a.m. is**  
 1) 5 m    2) zero    3) 6m    4) 7m
49. **The distance between Delhi and Mumbai is usually expressed in units of**  
 1) decametre    2) metre    3) centimetre    4) kilometre
50. **Bholu and Golu are playing in a ground. They start running from the same point A in the ground and reach point B at the same time by following the paths marked 1 and 2 respectively as shown in Fig. 10.3. Which of the following is/are true for the given situation.**



**As compared to Golu, Bholu covers a**

- 1) longer distance but with a lower speed.
- 2) longer distance with a higher speed.
- 3) shorter distance with a lower speed.
- 4) shorter distance with a higher speed.

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

51. Which solvent is used for separating sulphur dioxide gas and oxygen gas  
1) KOH                      2) H<sub>2</sub>O                      3) CH<sub>3</sub>COOH                      4) HNO<sub>3</sub>
52. Liquid non-metal is:  
1) Fluorine                      2) chlorine                      3) bromine                      4) scandium
53. You are given a mixture of sand, water and mustard oil. How will you separate the components of this mixture?  
1) evaporation followed by using separating funnel.  
2) filtration followed by using separating funnel  
3) distillation followed by using separating funnel  
4) crystallisation followed by using separating funnel
54. Takli charka used for \_\_\_\_\_  
1) Spinning                      2) Twisting                      3) Rearing                      4) Drawing
55. The rearing of silk worms is called  
1) Tissue culture                      2) Floriculture                      3) Horticulture                      4) Sericulture
56. Shawl obtained from the weaving of kashmiri goat wool is called \_\_\_\_\_  
1) Chanderi shawl                      2) Gadwala Shawl                      3) Pashmina shawl                      4) Pootkuli
57. In water hydrogen and oxygen can be separated by the process of  
1. Heating                      2) Filtration                      3) Sedimentation                      4) Electrolysis
58. Melting point of ice  
1) 10° C                      2) 100° C                      3) 0° C                      4) 20° C
59. Magnesium react with water to form which gas?  
1) CO<sub>2</sub>                      2) CO                      3) H<sub>2</sub>                      4) N<sub>2</sub>
60. Plants prepare food by \_\_\_\_\_  
1) Respiration                      2) Photolysis                      3) Photosynthesis                      4) Electrolysis
61. \_\_\_\_\_ turns lime water milky  
1) Nitrogen                      2) Oxygen                      3) Chlorine                      4) Carbon dioxide
62. Which gas is used as compressed natural gas?  
1) Carbon dioxide                      2) Ethane                      3) Methane                      4) Hydrogen
63. When ice changes into water, heat energy is:  
1) Released                      2) Absorbed  
3) Neither released nor absorbed                      4) All the above
64. When water vapour is suddenly Frozen on dust particles in the air, without undergoing condensation \_\_\_\_\_ is formed  
1) Frost                      2) Snow                      3) Fog                      4) Dew
65. Water vapour in the condenses on the surrounding objects as water droplets called  
1) Frost                      2) Snow                      3) Fog                      4) Dew

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

66. We eat these plant's flower \_\_\_\_\_  
1) Spinach                      2) Coriander                      3) Drumstick                      4) Cabbage

67. **Salt is a \_\_\_\_\_**  
1) plant                      2) Animal                      3) Mineral                      4) All the above
68. **A plant with fibrous roots :**  
1) brinjal                      2) bean                      3) grass                      4) tomato
69. **A plant with large leaves :**  
1) tamarind                      2) lotus                      3) peepal                      4) mango
70. **The root system we find in a Tridax plant :**  
1) Tap root                      2) fibrous root                      3) root hairs                      4) root let
71. **The \_\_\_\_ of a plant grows into the soil.**  
1) Root                      2) Stem                      3) Seed                      4) Branch
72. **Radish is an example of a plant which stores excess of food in its**  
1) Stem                      2) Leaf                      3) Root                      4) Fruit
73. **The flat portion of the leaf is called**  
1) Midrib                      2) Veins                      3) Lamina                      4) Petiole
74. **Spinal cord is a part of \_\_\_\_\_ system.**  
1) Circulatory system                      2) Nervous system  
3) Digestive system                      4) Urinary system
75. **Sam got injured during playing on his leg. Which of the following fruit will heal his wound?**  
1) Banana                      2) Apple                      3) Orange                      4) none of these
76. **What are the consumers that eat both plants and animals, called?**  
1) Carnivores                      2) Herbivores                      3) Omnivores                      4) Decomposers
77. **Which animal would you find in a freshwater ecosystem?**  
1) Whale                      2) Shark                      3) Eel                      4) Frog
78. **Savanna and Prairies are the types of \_\_\_\_\_ ecosystems.**  
1) Desert                      2) mountain                      3) Grassland                      4) marine
79. **Who among the following cannot defend themselves from a cow?**  
1) Elephant                      2) Tiger                      3) Plant                      4) Giraffe
80. **Which of the following biomes is known for evergreen vegetation?**  
1) Taiga                      2) Desert                      3) Tropical                      4) Tundra