

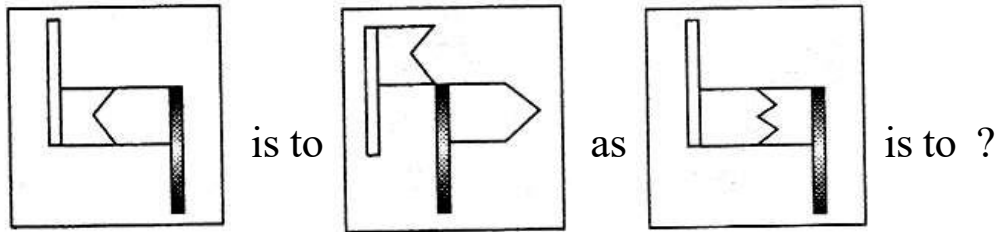
# SECTION - A

1. Find the next term of the given series.

**UTSR**, **POMNL**, **JHGF**, ?

- a. DCBAZYX
- b. CBAZYXW
- c. BAZYX
- d. CDEFGHI

2. Which option figure completes the second pair in the same way as the first pair?



- a.
- b.
- c.
- d.

3. Arrange the given words in a logical and meaningful order and find the word which will appear at first place.

- a. Triangle
- b. Hexagon
- c. Pentagon
- d. Square

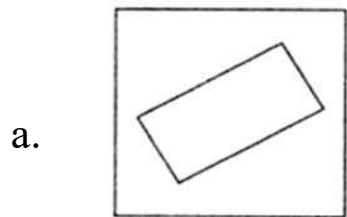
4. Books on four subjects, viz, Mathematics, Physics, Chemistry and Biology are piled up on a shelf in such a way that the Mathematics book touches the Chemistry and Biology books and the Physics book is kept on top of the Chemistry book. Which book is at the bottom?

- a. Biology
- b. Chemistry
- c. Physics
- d. Mathematics

5. From his house, Vinit went 15 km to the North, Then, he turned West and covered 10 km. Then he turned South and covered 5km Finally, turning to East, he covered 10km. How far and in which direction is he from his house?

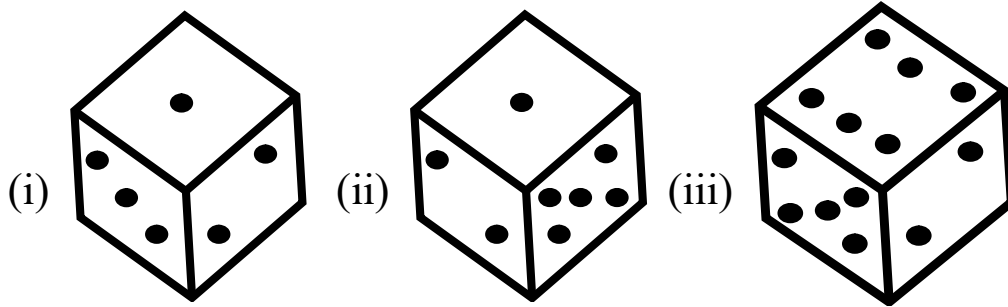
- a. 10 km, North
- b. 10 km, South
- c. 10 km, East
- d. 10 km, West

6. Given pieces below can be fitted together to form a perfect circle. Which one is the odd piece?



d. None

7. Below are depicted the three different position of a die. Find the number of dots on the face opposite to the face with 1 dot.



- a. 2  
c. 3

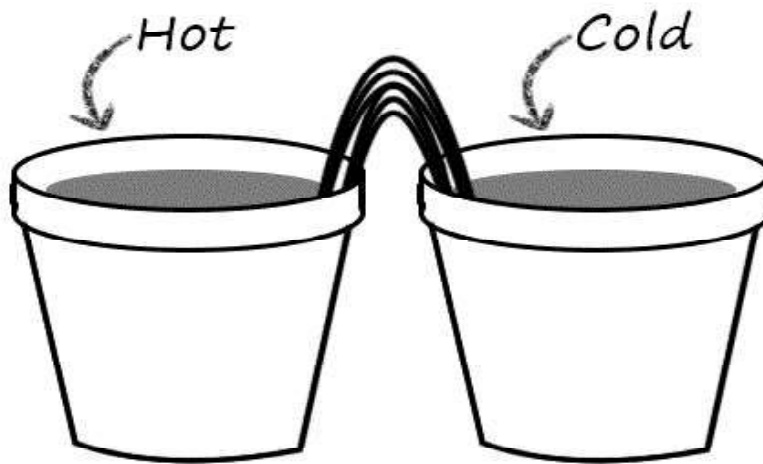
- b. 4  
d. 6

## SECTION - B

8. Before sowing the seeds, it is necessary to break soil to the size of grains to get better yield. The main tools used for such are
- |                             |                                |
|-----------------------------|--------------------------------|
| a. Tractor, Hoe, Seed drill | b. Bullock, Tiller, Tractor    |
| c. Plough, Hoe, Cultivator  | d. Plough, Seed Drill, Tractor |
9. CNG is the abbreviated form of
- Combined natural gas
  - Compressed Natural Gas
  - Confirmed Natural gas
  - Condemned Natural gas
10. What is resistance of a conductor?
- When there are more atoms and molecules in conductor than free electrons, so as to restrict movement of electrons on getting current.
  - When there are more free electrons than molecules and there is no restriction in movement of electrons on getting current.
  - When conductor has equal amount of free electrons and atoms and molecules
  - none of the above

11. Acid rain mainly contains
- Sodium chloride
  - Sulphur di oxide and Nitrogen di oxide
  - Hydrochloric acid
  - Carbon tetra chloride

12. In the given diagram two containers are kept in contact with each other which are filled with same liquid of different temperature. Observe the diagram shown below and choose the correct option.



- Heat is transferred from hot pot to cold pot.
  - Heat is transferred from cold pot to hot pot.
  - Heat is not transferred between the pots.
  - None of these.
13. Those species (of plants and animals) which are found exclusively in a particular area are called :
- Epidemic species
  - Pandemic species
  - Pelagic species
  - Endemic species

14. The friction between two surface does not depend on one of the following. This one is :
- Amount of surface area of the two objects which is in contact with each other
  - Weight of the object which tends to move on the surface of other object.
  - Degree of smoothness of surfaces of two objects in contact with each other.
  - Degree of roughness of surfaces of two objects in contact with each other
15. Chromosome carry \_\_\_\_\_ which transfers characters from parents to offsprings
- |             |                 |
|-------------|-----------------|
| a. Ribosome | b. Genes        |
| c. Plastid  | d. Mitochondria |

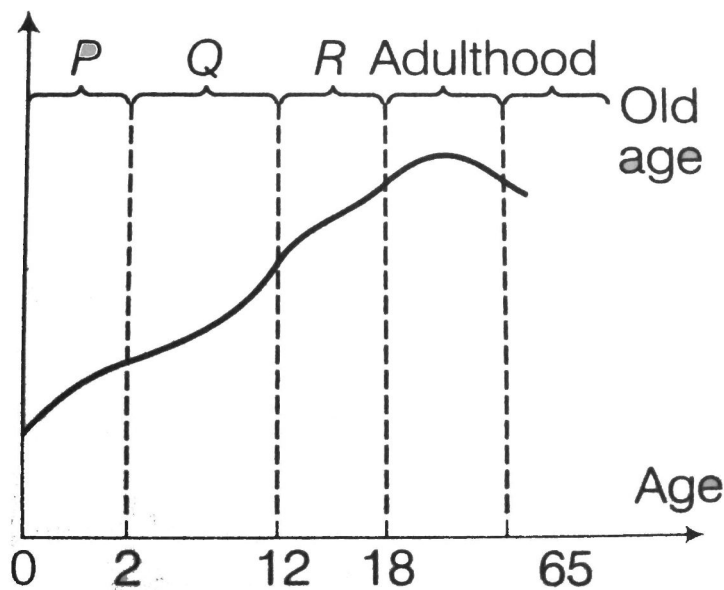
## SECTION - C

16. Polycot is made by mixing two types of fibres namely
- Silk + Cotton
  - Polythene + cotton
  - Silk + Polyester
  - Polyester + Cotton
17. When a glass rod is rubbed with a piece of silk cloth the rod
- And the cloth both acquire positive charge.
  - Becomes positively charged while the cloth has a negative charge.
  - And the cloth both acquire negative charge.
  - Becomes negatively charged while the cloth has a positive charge.

18. If the static friction between two surfaces P and Q is measured to be 50 N, then the sliding friction between these two surfaces should most likely be:

- a. 75 N
- b. 45 N
- c. 55 N
- d. 65 N

19. Name the period of growth, which are labelled as P, Q and R.



- a. P - infancy, Q - childhood, R - old age
- b. P - infancy, Q - childhood, R - adolescence
- c. P - adulthood, Q - adolescence, R - old age
- d. P - childhood, Q - infancy, R - adolescence

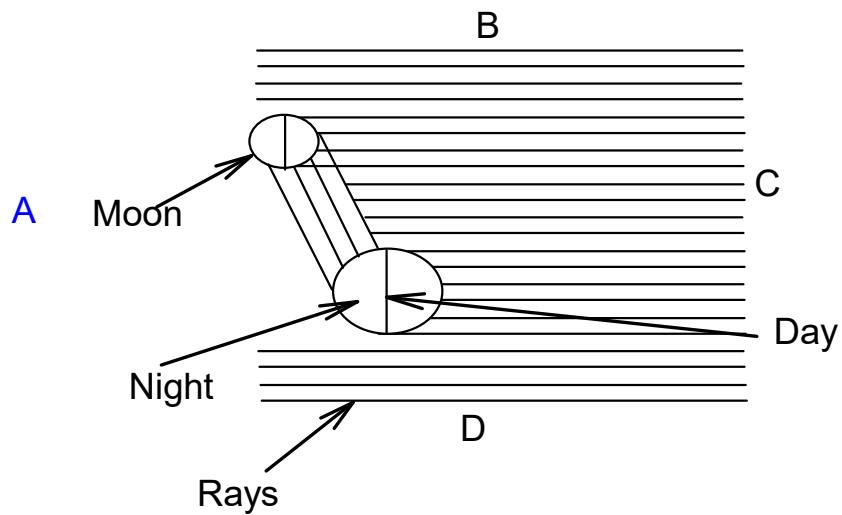
20. Which of the following combinations are present in plant cell but not in animal cell

- a. Cell Wall & Plastid
- b. Cell wall and Cell membrane
- c. Plastid and Nucleus
- d. Cell Membrane and Cytoplasm

21. When oil or petrol catches fire, water is not used to extinguish it because

- a. Water covers oil and oil burns under water layer which may not be noticeable
- b. Water is heavier than oil / petrol and so remains below the oil layer which continues to burn
- c. Water get mixed with oil and increases fire
- d. Water gets evaporated

22. In the given figure, out of the position A, B, C and D which will indicate the position of the sun?



- a. A
- b. B
- c. C
- d. D