



## Chapter -14

### Water

#### **SOLUTIONS:**

#### **EXERCISES:**

1. Fill up the blanks in the following:

- (a) The process of changing of water into its vapour is called \_\_\_\_\_.
- (b) The process of changing water vapour into water is called \_\_\_\_\_.
- (c) No rainfall for a year or more may lead to \_\_\_\_\_ in that region.
- (d) Excessive rains may cause \_\_\_\_\_.

Ans: (a) evaporation (b) condensation (c) drought (d) flood

2. State for each of the following whether it is due to evaporation or condensation:

- (a) Water drops appear on the outer surface of a glass containing cold water.
- (b) Steam rising from wet clothes while they are ironed.
- (c) Fog appearing on a cold morning.
- (d) Blackboard dries up after wiping it.
- (e) Steam rising from a hot girdle when water is sprinkled on it.

Ans: (a) condensation (b) evaporation (c) condensation (d) Evaporation (e) evaporation

3. Which of the following statements are ‘true’?

- (a) Water vapour is present in air only during the monsoon.
- (b) Water evaporates into air from oceans, rivers and lakes but not from the soil.
- (c) The process of water changing into its vapour is called evaporation.
- (d) The evaporation of water takes place only in sunlight.
- (e) Water vapour condenses to form tiny droplets of water in the upper layers of air where it is cooler.

Ans: (a) False (b) False (c) True (d) False (e) True

4. Suppose you want to dry your school uniform quickly. Would spreading it near an *anghiti* or heater help? If yes, how?

Ans: Yes, spreading the school uniform near an *anghiti* or heater will help because heating increases the rate of evaporation.

5. Take out a cooled bottle of water from refrigerator and keep it on a table. After some time you notice a droplets of water around it. Why?

Ans: Because the cold surface of the cooled bottle cools the air around it and the water vapour of the air condenses on the surface of cooled bottle.

6. To clean their spectacles, people often breathe out on glasses to make them wet. Explain why the glasses become wet.

Ans: When we breathe out, we exhale carbon dioxide gas along with water vapours. The water vapour when comes in contact with the surface of the glass gets condensed due to which the glass becomes wet and makes it easy to clean.

7. How are clouds formed?

Ans: The process of condensation plays an important role in bringing water back to the surface of earth. As we go higher from the surface of earth, it gets cooler and cooler. At sufficient heights, the air becomes so cool that the water vapour present in it condenses to form tiny droplets that remain floating in air and appear to us clouds.

8. When does a drought occur?

Ans: If it does not rain in a region for a year or more. Water is lost from the soil due to evaporation and transpiration. This lead to the decrease in the level of water in ponds, lakes, wells etc. Some of them even dried up. The ground water becomes scarce. This lead to drought.



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## **EXTRA QUESTIONS AND ANSWERS:**

1. Name some sources of water.

Ans: Seas, oceans, rivers, tube wells etc.

2. Water in the oceans and seas is not fit for drinking or other purpose. Why?

Ans: Water in the oceans and seas is not fit for drinking and other purposes because the water in oceans and seas are salty i.e. it is saline.

3. Define the following:

(a) Water cycle

(b) Evaporation

(c) Condensation

Ans: (a) Water from the ocean and surface of the earth goes into air as vapour, returns as rain, hail or snow and finally goes back to the oceans. The circulation of water in this manner is known as the water cycle.

(b) Evaporation is the process of converting water into its vapour state

(c) The process of converting water vapour into its liquid form is called condensation

4. Name the processes by which water is continuously added to the atmosphere.

Ans: Evaporation and transpiration.

5. What is transpiration?

Ans: The process of loss of water in the form of water vapour from the leaves of plants is called transpiration.

6. What are the consequences of flood?

Ans: Floods caused extensive damage to crops, domestic animals, property and human life.

7. Write the two techniques of rainwater harvesting.

Ans: Two techniques of rain water harvesting are:

(a) Rooftop rainwater harvesting: In this system, the rain water is collected from the roof top to a storage tank, through pipes.

(b) To allow water to go into the ground directly from the road side drains that collect rain water.

8. What are the factors leading to shortage of water?

Ans: The factors leading to shortage of water are:

(a) Increasing population.

(b) More and more water is being used for producing food and by the industries.

9. Give reason why?

- (a) Dews are formed on leaves of grass in winter morning.
- (b) Water spilled on a floor dries up after sometime.

Ans: (a) It is due to condensation.

- (b) It is due to evaporation.

10. Name the process responsible for the formation of hail and snow.

Ans: Precipitation.

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