

Chapter 14 Water

Ncert question Answer

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 or vaporisation

(b) condensation

(c) droughts

(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 winter 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.

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 you? If yes, how?

Ans: Yes, to dry the school uniform quickly, the uniform is spread near an anghiti or heater because evaporation is rapid at higher temperature. Higher the temperature faster is the rate of evaporation. So the uniform is dried up quickly.

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

Ans: The cooled water bottle has very cold exposed surface. Due to cool surface

there is condensation of water-vapour from air on the surface of water bottle because water vapour is present in atmosphere. The condensed water molecules spread around the bottle. So a puddle of water is noticed after sometime.

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

Ans: The breathe out gases contain water-vapour. The water-vapour condenses at spectacles so glass becomes wet and with the help of small amount of water, it is easy to clean the spectacles.

7. How are clouds formed?

When the temperature of air increases, it mmlxpands (ie, its particles move away from one another). This makes the air lighter and it rises in the atmosphere, taking water vapour with it. As the air rises, it begins to cool. The water vapour condenses on dust particles present in the atmosphere to form millions of tiny droplets Tiny ice crystals will be formed instead if it is very cold. This cluster of tiny water droplets floating in air is what we call a cloud.

8. When does a drought occur?

Ans: If there is no rain for a long period or for many years then there is scarcity of Water in that region. This leads to drought.

Extra questions

1.What is meant by conservation of water? Suggest three methods to conservewater.

Ans: Careful and economical use of water and avoiding its wastage is called conservation of water.

Suggestions for conserving water:

- 1.Use only the required quantity of water.
- 2.Trees and forests help in causing rainfall. So to conserve water, we should plant more and more trees
- 3.By collecting rainwater in tanks, ponds or by constructing check dams.

2.What is rainwater harvesting? Describe the method of rainwater harvesting.

Ans: Rainwater harvesting is the collection of rainwater and storing for future use. In this system rainwater in collected from the rooftops by means of pipes into storage tank for later use.

Methods of Rainwater Harvesting:

- 1.Rooftop rainwater harvesting:In this system the rain water is collected from the rooftop to a storage tank, through pipes. This water may contain soil from the roof and need filtering

before it is used. Instead of collecting rainwater in the tank, the pipes can go directly into a pit in the ground. This then seeps into the soil to recharge or refill the ground water

2. Another option is to allow water to go into the ground directly from the roadside drains that collect rainwater.

3. Define water cycle

Ans:- the cyclic movement of water from the atmosphere to the earth and back to the atmosphere through various processes is called water cycle

4. Define potable water

Ans:- water fit for human consumption is called potable water