

## **Chapter 14: Water**

### **Multiple Choice Questions**

1. (a)      2. (a)

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1. (a)      2. (a)



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# EXERCISES

Use **Cordova Smart Class Software** on the **smart board** in class to do these exercises.

## A. Tick (✓) the correct options:

- For which purpose is water needed?  
(a) agriculture  (b) industries  (c) transportation  (d) all of these
- Coming down of water in the form of rain, hail or snow is called \_\_\_\_\_.  
(a) evaporation  (b) condensation  (c) precipitation  (d) all of these
- Which of the following maintains the supply of water on land?  
(a) water table  (b) water cycle  (c) water bodies  (d) none of these
- The process by which excess water is released by plants into air as vapour is \_\_\_\_\_.  
(a) condensation  (b) transpiration  (c) precipitation  (d) all of these
- This reduces the visibility near the ground on cold winter mornings.  
(a) fog  (b) water vapour  (c) smoke  (d) dust
- \_\_\_\_\_ pollution reduces water availability.  
(a) Land  (b) Air  (c) Noise  (d) Water

## B. Fill in the blanks:

- The Solid state of water is ice.
- Water cycle helps in regulating the water supply on the earth.
- Water regulates our body temperature by the process of transpiration.
- At greater height, water vapour in air condenses to form tiny drops of water.
- Rainwater harvesting increases the availability of groundwater.
- Floods wash away the top layer of the soil resulting in soil erosion.

Whether the following statements are true (T) or false (F). Rewrite the false statements.

**C. State whether the following statements are true (T) or false (F). Rewrite the false statements correctly.**

1. T
2. F, Correct statement – There is shortage of drinking water during floods.
3. T
4. F, Correct statement – We see tiny droplets on the outer surface of the glass containing chilled water.
5. F, Correct statement – Water vapour enters the earth's atmosphere through evaporation and condensation.

**D. Very Short Answer Questions.**

1. (a) water (liquid) (b) ice (solid) (c) steam (vapour)
2. Cholera
3. Groundwater or underground water
4. Sources of water are surface water, rainwater and underground water or subsoil water.
5. The processes involved in water cycle are—
  - (a) evaporation or transpiration
  - (b) formation of clouds by condensation
  - (c) precipitation

**E. Short Answer Questions.**

1. (a) Coming down of water in the form of rain, hail or snow is called precipitation.  
(b) The process of collecting rainwater from roofs and streets and storing it for further use is called rainwater harvesting.
2. (a) The problem of water shortage is increasing day by day due to the increasing population.  
(b) Pooja's action shows her helpful nature.
3. Rain is useful to us because it
  - (a) cools the environment.
  - (b) supplies water for irrigation.
  - (c) maintains the supply of water on land and raises the water table.



## 2. No Rain for a Long Time Causes Drought

Absence of rain in a particular region for a long time leading to severe shortage of water is called drought.

5. The life of animals living in the soil gets affected by heavy rain. As the land gets covered with water, the animals that live in soil (like snakes and earthworms) come out in search of air and food.
6. The advantage of rainwater harvesting is that it increases the availability of groundwater which helps us to overcome water scarcity problems especially during dry seasons.

**F. Long Answer Questions.**

1. (a) The flood water submerges the standing crops, grasslands and forests. Due to this, the plants do not get sufficient amount of air and nutrients and therefore, die.  
(b) The problems faced by people after floods are—
  - (i) Floods in city areas lead to waterlogged roads and streets. This disrupts the traffic on roads and causes inconvenience to the people.
  - (ii) Floods cause extensive damage to crops. This may cause acute food shortage, and deaths due to hunger.
  - (iii) Floods cause serious injuries or death of domestic animals by drowning.
  - (iv) When flood water recedes, it causes spreading of diseases like cholera, dysentery, diarrhoea, etc.
  - (v) Floods wash away the top layer of soil thus reducing the fertility of soil.
2. (a) As the population is increasing rapidly, the number of people using water is also increasing day by day. Also, more and more water is being used in agriculture for producing food and by the industries which manufacture a large variety of products for our use. All these factors are leading to shortage of water in many parts of the world, including our country. Keeping in view the shortage of usable water, it is essential that water is used carefully. We should take care not to waste water.  
(b) The various methods to conserve water are—
  - (i) Plant more and more trees.
  - (ii) Use a bucket and a mug instead of shower while taking bath.
  - (iii) Close the taps tightly after using them.
  - (iv) Avoid cleaning utensils under running water.
  - (v) Check overflowing of water tanks.
  - (vi) Recycle wastewater.
  - (vii) Adopt rainwater harvesting to store the rainwater.  
(c) The two main types of rainwater harvesting are—
  - (i) Rooftop rainwater harvesting
  - (ii) Roadside rainwater harvesting