

# CHAPTER 16

## Water: A Precious Resource

## SECTION-B

- A. I. 1. (d)                      2. (b)                      3. (b)                      4. (d)
- II. 1. Sludge    2. water conserving  
3. water harvesting    4. hydrological cycle
- III. 1. (c)                      2. (e)                      3. (d)                      4. (b)                      5. (a)

- B. I. 1. (a) Increasing population                      (b) Rapid growth of industries  
2. Evaporation, precipitation and transpiration  
3. Drip irrigation  
4. Water management  
5. *Bawri*

The complete or partial cutting of trees and plants from the forest for various purposes is called deforestation.

- II. 1. When it rains, the rainwater seeps into ground and the groundwater is recharged.  
2. The factors which affect the water table are increasing population, increasing industries, agricultural activities, deforestation and decrease in the effective area for seepage of water.  
3. The underground layer of soil and permeable rocks in which water collects under the ground is known as aquifer. The upper level of aquifer is known as water table.  
4. Drip irrigation is a technique of watering plants by making use of a system of narrow pipes or tubes with small holes, which deliver water directly at the base of the plants. The main advantage of drip irrigation is to minimise the use of water for irrigation.  
5. If the potted plants are not watered for a few days, the plants will wilt and ultimately dry up.
- III. 1. Some of the methods by which we can conserve water are:  
(a) water harvesting  
(b) building underground storage tanks  
(c) constructing small dams  
(d) making bunds along hill slopes

- (e) treating domestic and municipal wastewater to make it fit for industry and agriculture
- (f) using low water sprinkles for agriculture
- (g) preventing misuse and wastage of water.

2. (a) Mismanagement of water by water supply department are:

- (i) At many places water is supplied through a well-planned network of big and small pipes. When water is supplied through pipes, all water does not reach the destination because there is some leakage in the pipes.
- (ii) Sometimes the dirty sewer water gets mixed with the drinking water supply.

(b) Mismanagement of water at individual level are:

- (i) Turn off taps while brushing.
- (ii) Get the leaking taps repaired.
- (iii) Take bath by filling water in a bucket, but not directly under the flowing tap.
- (iv) Wash the utensils by filling water in a basin, but not under a running tap.
- (v) Mop the floor instead of washing daily.
- (vi) Water you lawn only when it needs.

3. Refer to text on page 259.

4. Refer to text on page 261.

**C.** 1. Our earth is called Blue planet because nearly eighty percent of our earth surface is covered with water.

2. We feel a need to conserve water because water is precious and we need to save it.

**D.** 1. Rishi does all this to save water as water is precious.

2. The values shown by Rishi are kindness, spreading awareness and efforts to save water.

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