SpeedLabs

Science

CBSE 7th

TEEVRA EDUTECH PVT. LTD.

Water: A Precious Resource
Chapter 16

SpeedLabs
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"An Innovative Practice Methodology by IITians."

1. Mark 'T' if the statement is true and 'F' if it is false.

(a) The freshwater stored in the ground is much more than that present in the rivers and lakes of the world. (T/F)

(b) Water shortage is a problem faced only by people living in rural areas. (T/F)

(c) Water from rivers is the only source for irrigation in the fields. (T/F)

(d) Rain is the ultimate source of water. (T/F)

Ans. (a) The freshwater stored in the ground is much more than that present in the rivers and lakes of the world. (T)

(b) Water shortage is a problem faced only by people living in rural areas. (F)

(c) Water from rivers is the only source for irrigation in the fields. (F)

(d) Rain is the ultimate source of water. (T)

2. Explain how groundwater is recharged.

Ans. Rain water and the water from water bodies on earth's surface pass through the soil by the process of infiltration. The infiltrated water then gets accumulated in the aquifer deep under the ground. There are some layers of impermeable rocks which prevent the water in the aquifer from seeping down further. In this way, the ground water is recharged.

3. There are ten tube wells in a lane of fifty houses. What could be the long-term impact on the water table?

Ans. If the people of the fifty houses use the ten tube wells, then the water required by them is drawn from the ground. If these tube wells are used for long time, then the ground water would be reduced and the water table would go down.

4. You have been asked to maintain a garden. How will you minimize the use of water?

Ans. To maintain a garden, water is necessary. Therefore, to minimize the use of water, we can apply the drip irrigation method. In this method, water is supplied directly to the base of the plants using narrow pipes, thereby reducing the loss of water.

5. Explain the factors responsible for the depletion of water table.

Ans. The factors responsible for the depletion of water table are as follows.

(i) Increasing population:

As a result of increasing population, all the facilities such as houses, shops, roads, offices, pavements, etc. increase to fulfil the increasing demands. This, in turn, decreases the open area for seepage of water into the ground.

(ii) Increasing industries: Most of the stages of manufacturing processes in industries require water. If the number of industries increases, then the water required by them will also increase. Therefore, increase of industries contributes to the depletion of water table.

(iii) Agricultural activities: India is an agricultural country and agriculture is impossible without water. The water for agriculture is mainly utilized from ground water, rain water and canal water. As there is no rainfall in many places, agriculture cannot be entirely depended on rain water. Also, canal water is available in a few places only. Therefore, ground water is the main source of water for agricultural activities and this causes depletion of water table.

6. Fill in the blanks with the appropriate answers.

(a) People obtain groundwater through _____ and _____.

(b) Three forms of water are _____, _____ and _____.

(c) The water bearing layer of the earth is _____.

(d) The process of water seepage into the ground is called _____.

Ans. (a) People obtain groundwater through tube wells and hand pumps.

(b) Three forms of water are ice, water and vapour.

(c) The water bearing layer of the earth is aquifer.

(d) The process of water seepage into the ground is called infiltration.

7. Which one of the following is not responsible for water shortage?

(i) Rapid growth of industries (ii) Increasing population

(iii) Heavy rainfall (iv) Mismanagement of water resources

Ans. (iii) Heavy rainfall

8. Choose the correct option. The total water

(i) in the lakes and rivers of the world remains constant.

(ii) under the ground remains constant.

(iii) in the seas and oceans of the world remains constant.

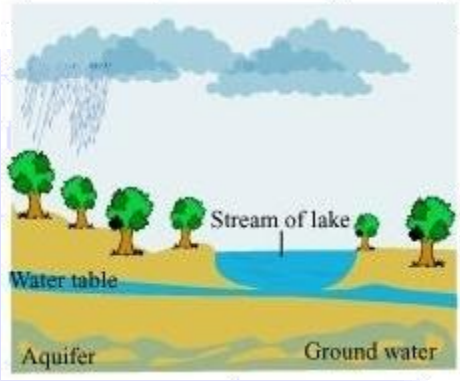
(iv) of the world remains constant.

Ans. The total water

(iv) of the world remains constant.

9. Make a sketch showing groundwater and water table. Label it.

Ans.



Ground water and water table