

Water A Precious Resource

Q1. Mark "T" if the statement is true and 'F' if it is false:

- (a) The fresh water 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)

Sol:

- a) The fresh water 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)

Q2. Explain how groundwater is recharged?

Sol: Recharging of groundwater is done by the rainwater and water sources like rivers, lakes and ponds. The water seeps through the soil and fill the empty spaces and cracks below the ground. In this way, groundwater gets recharged.

Q3. There are ten tube wells in a lane of fifty houses. What could be the Long-term impact on the water table?

Sol: If there are ten tube wells in a lane of fifty houses then it will the long-term impact on the water table. Because more number of tube-wells will lead to use the ground water table and after few months there will be no water below the pipe. If some families will share a tubewell, the water used for daily domestic purposes will not affect the water table.

Q4. You have been asked to maintain a garden. How will you minimize the use of water?

Sol: To reduce the waste of water for maintaining a garden, we will use:

- (i) The sprinkler or drip irrigation method to maintain the garden for saving maximum amount of water.
- (ii) Rainwater harvesting method can also be used for the gardening processes.

Q5. Explain the factors responsible for the depletion of water table.

Sol: The main factors responsible for the depletion of water table are:

- (i) Increasing population: The higher the number of people will increase the higher consumption of water which will lead to decrease in the groundwater.
- (ii) Increasing industries: As we know all the industries need water. The higher the number industries will need more water for their production, which will affect groundwater.
- (iii) Agricultural activities: As we know that India depends on agriculture due to large population. The land used for cultivation has increased. So, more number of fields will need more irrigation system and again the water level will affect and will lead to a decrease in water level.

Q6. Fill in the blanks with the appropriate answers:

- (i) People obtain groundwater through ----- and -----.
- (ii) Three forms of water are -----, ----- and -----.
- (iii) The water bearing layer of the earth is -----.
- (iv) The process of water seepage into the ground is called -----.

Sol:

- (i) People obtain groundwater through hand pumps and wells.
- (ii) Three forms of water are Ice, water and water vapor.
- (iii) The water bearing layer of the earth is aquifer.
- (iv) The process of water seepage into the ground is called infiltration.

Q7. 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.

Sol: (iii) Heavy rainfall

Q8. Choose the correct option. Total water

- (i) In the lakes and rivers of the world remains constant.
- (ii) Under the ground remain constant.
- (iii) In the seas and oceans of the world remains constant.
- (iv) Of the world remains constant.

Sol: (iv) Of the world remains constant.

Q9. Make a sketch showing ground water and water table. Label it.

Sol:

