NCERT solution for Water: A precious Resource

Question 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)

Answer

(a) T
(b) F
(c) F
(d) T

Question 2

Explain how groundwater is recharged?

Answer

The rainwater and water from other sources such as rivers and ponds seeps through the soil and fills the empty spaces and cracks deep below the ground. The process of seeping of water into the ground is called infiltration. The infiltrated water then gets accumulated into deep aquifer under the ground

Question 3

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

Answer

The tube wells take the water from underground. So if people of all the fifty houses in the lane use the ten tube wells regularly, this will lead to exploitation of water resource present underground. In long term, the water level will go below and thus the depletion of water layer

Question 4

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

Answer

Water is necessary for Garden but water is also a precious resource so we need to use it wisely. I will use the technique of drip irrigation for minimizing the use of water in maintenance of garden. In this method, required amount water is supplied directly to the roots of the plants using narrow pipes thus preventing the loss of water.

Question 5

Explain the factors responsible for the depletion of water table.

Answer

Factors responsible for the depletion of water level:

| 1) | Increase in the demand of water due to overpopulation | Due to increase in population, demands for water increased. Also we have less area for seepage |
| 2) | Lack awareness in people | Lack awareness in people is also a main reason behind the depletion of water level as they waste water without any uses. |

3)	Increase the number of industries	As the number of industries are coming up, they required more water for their running which further led to depletion of water layer
4)	Deforestation	Deforestation leads to less rainfall which affect the recharge of river and pounds.
5)	Older method in agriculture	Insignificant uses in agriculture activities as in many parts of the world people uses old techniques which waste a lot of water.

Question 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 _____.

Answer

(a) tube wells ,hand pumps.

(b) ice, water and vapour.

(c) aquifer.

(d) infiltration.

Question 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

Answer

(iii) Heavy rainfall

Question 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.

Answer

(iv) of the world remains constant.

Question 9

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

Answer