

Chapter 16: Water

CAN YOU RECALL ? [PAGE 77]

Can you recall ? | Q 1 | Page 77

What happens when a spoonful of sugar, sawdust, and soil are added to a glass of water?

SOLUTION

When sugar is added to the water, it dissolves completely and disappears in the water. When sawdust is added, it will float on the surface of the water. When soil is added it will settle at the bottom of the water.

Can you recall ? | Q 2 | Page 77

Which are the three states of water?

SOLUTION

Three states of water are

1. Solid form-e.g. Ice
2. Liquid form-(e.g. Plain water
3. Gaseous form-e.g. Vapour

Can you recall ? | Q 3 | Page 77

What is done to make drinking water clean and safe?

SOLUTION

Methods of settling and filtering will make the water clean. For making it safe it is boiled for some time.

CAN YOU RECALL ? [PAGE 77]

Can you recall ? | Q 1 | Page 77

List the substances that are mixed in the waste water drained out of the kitchen and bathroom in your house.

SOLUTION

Various substances are mixed with the waste water that drains out of the kitchen and bathroom of our house. This drained water contains excreta, urine, bathing water, liquid soap, detergents, water containing leftover food particles, dirty water formed due to washing utensils and clothes, and various other contaminants.

EXERCISES [PAGE 81]

Exercises | Q 1 | Page 81

What's the solution?

Soil in a garden gets washed away with the water due to the slope of the land.

SOLUTION

On the slope of the garden, we could plant saplings and smaller shrubs. We can even plant grass on the slope. If rocks or bricks are placed on the side of the slope, then that can also arrest the flow of soil. While watering the garden, it should be done gently. Forceful watering can lead to more soil erosion.

Exercises | Q 2 | Page 81

Use your brain power !

How should roads and footpaths be built to make rainwater seep into the ground?

SOLUTION

If the entire road and footpaths are made of concrete, there would be a problem for rainwater to seep into the soil. Therefore some adjoining parts of the road and footpath should be kept without concretization so that rainwater could seep inside. Similarly, if a little gap is maintained between the two adjacent tiles on the footpath, rainwater can percolate inside.

Exercises | Q 3. (a) | Page 81

Answer the following question.

What conditions prevail during a famine?

SOLUTION

1. In drought conditions or during the famine, the levels of water in different reservoirs decrease. Some of the reservoirs become totally dry. Similarly, the land also becomes barren and dry.
2. Animals and people face scarcity of water.
3. Agriculture suffers due to a lack of water.
4. Domestic animals, other animals, and people suffer a lot. People are forced to migrate from the drought areas as they have to face hardships.

Exercises | Q 3. (b) | Page 81

Answer the following question.

What works are undertaken to make water available even after the rainy season?

SOLUTION

1. Different methods are adopted to make water available even after the rainy season.
2. In places where large dams cannot be constructed, smaller reservoirs are made.

3. Counter bunding, stopping water of the streams by building bunds, and similar such works are undertaken by the Government and the local people.

Exercises | Q 3. (c) | Page 81

Answer the following question.

Why is it necessary to stop rainwater?

SOLUTION

1. If the rainwater is stopped, from flowing away and allowed to percolate in soil or stored, this water will be available for us even after the rainy season.
2. The groundwater level rises due to the percolation of rainwater in the soil.
3. Trees and agriculture can get water by this method.
4. Well, the water rises, and more land can be cultivated. By all these efforts, drought can be avoided.

Exercises | Q 3. (d) | Page 81

Answer the following question.

What is meant by water management?

SOLUTION

Taking steps to ensure that the rainwater will be available even after the rainy season is called water management. Saving water and catching rainwater are some of the ways of water management.

Exercises | Q 4. (a) | Page 81

True or false? Correct the wrong statement.

We get rainwater throughout the year.

1. True
2. **False**

SOLUTION

This statement is False.

We get rainwater only for four months

Exercises | Q 4. (b) | Page 81

True or false? Correct the wrong statement.

During a famine, the government moves people and animals temporarily to safe places.

1. **True**
2. False

SOLUTION

This statement is True.