

CBSE Class 10 Science
NCERT Exemplar Solutions
Chapter 16
Management of Natural Resources

Short Answer Questions

25. Prepare a list of five items that you use daily in the school. Identify from the list such items that can be recycled.

Ans. Paper, rexin bag, blade, pen, plastic box, scale, eraser, compass and dividers (metallic), steel lunch box, steel spoon.

Paper, blade, plastic box, eraser, compass, steel lunch box and steel spoon can be recycled.

26. List two advantages associated with water harvesting at the community level.

Ans. (a) The ground water level increases due to recharging of wells.

(b) Ground water keeps the layers of soil above it moist and prevents loss of water by evaporation.

27. In a village in Karnataka, people started cultivating crops all around a lake which was always filled with water. They added fertilizers to their field in order to enhance the yield. Soon they discovered that the waterbody was completely covered with green floating plants and fishes started dying in large numbers. Analyse the situation and give reasons for excessive growth of plants and death of fish in the lake.

Ans. Since people used excessive fertilizers in the fields, they were carried down to the lake during rains through underground seepage systems.. As many fertilizers contain phosphates and nitrates, the water body became enriched with these chemicals, a phenomenon called eutrophication. These chemicals promoted excessive growth of aquatic plants and the surface of water was completely covered with plants.

Depletion of light in the water body and insufficient availability of dissolved oxygen and nutrients resulted in the death of fish.

28. What measures would you take to conserve electricity in your house?

Ans. I will take following measures to conserve electricity in my house:

- I will ask my parents to replace all the incandescent bulbs with LED.
- I will switch off fan and light if nobody is in the room.
- I will keep the windows open during day to allow natural light in the room.
- I will reduce the use of air conditioner/air cooler.

29. Although coal and petroleum are produced by degradation of bio- mass, yet we need to conserve them. Why?

Ans. Both the biodegradable energy sources coal and petroleum take millions of years for their formation. As these resources are being utilized at a much faster rate than their formation, they will be exhausted in the near future, hence they need to be conserved.

30. Suggest a few measures for controlling carbon dioxide levels in the atmosphere.

- Ans.** (a) Consumption of petrol in the automobiles should be reduced.
(b) Use of CNG or clean fuel should be encouraged.
(c) Instead of burning litter manure should be prepared out of it.
(d) Treatment of smoke to remove harmful gases before discharging them into atmosphere
(e) More trees should be planted.

31. Answer the following:

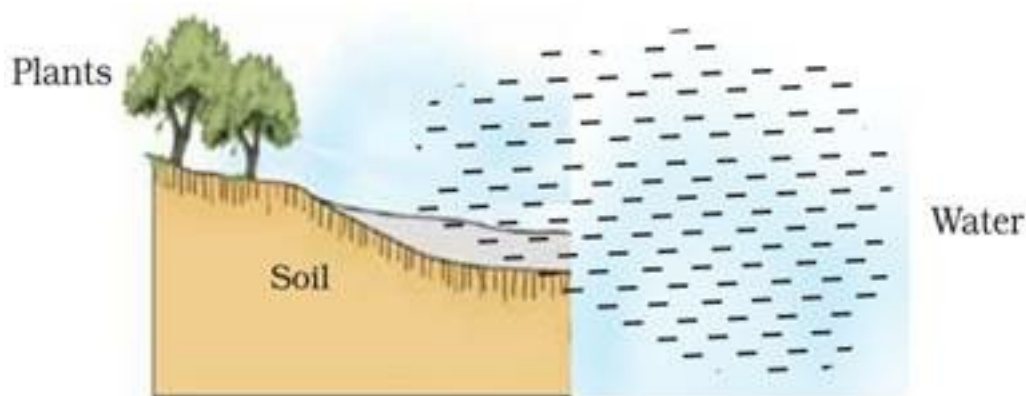


Fig. 16.1 (a)

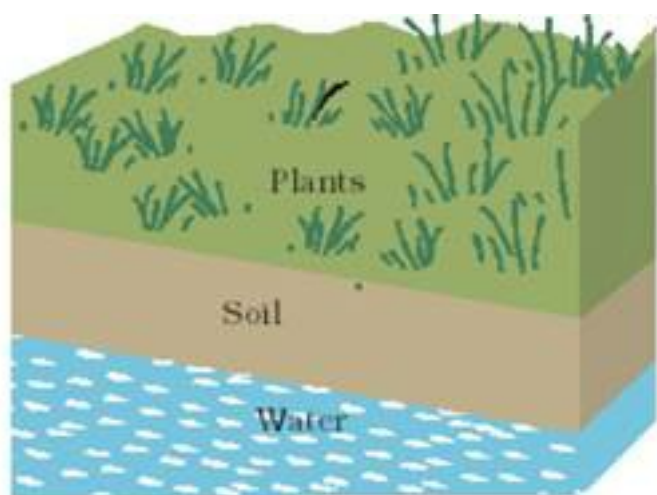


Fig. 16.1 (b)

(a) Locate and name the water reservoirs in Figures 16.1 (a) and (b).

Ans. The water reservoir is a pond in Figure 16.1 (a) and underground water body in the Figure 16.1 (b).

(b) Which has an advantage over the other and why?

Ans. Figure 16.1 (b) has more advantage than Figure 16.1 (a), because the advantages of water stored in the ground are many. For example

(a) It does not evaporate

(b) It spreads out to recharge wells.

(c) Provides moisture for vegetation over a wide area.

(d) It is protected from contamination by animal and human wastes.

(e) It prevents breeding of insects.