

Chapter - 17

Forests: Our Lifeline

Multiple Choice Questions

1. Which of the following serve as green lungs?

- (a) Green pigment of the plants
- (b) Forests
- (c) Kitchen gardens
- (d) Green house gases

Soln:

Answer is (b) Forests

Explanation:

Plants release oxygen during photosynthesis which is used by all the organisms. Plants help to maintain the concentrations of CO₂ and Oxygen. Hence they are called as green lungs.

2. Boojho visited a forest near his town with his classmates and his teacher. As they were entering the forest, their class teacher told them not to make noise in the forest as noise could disturb the

- (a) birds
- (b) animals
- (c) both birds and animals
- (d) plants

Soln:

Answer is (c) both birds and animals

3. Which among the following forest animals is the smallest?

- (a) Fox
- (b) Boar
- (c) Bison
- (d) Porcupine

Soln:

Answer is (d) Porcupine

4. Which of the following has the strongest stem?

- (a) A tree
- (b) A creeper
- (c) A climber
- (d) A bush

Soln:

Answer is (a) A tree

5. Which of the following is not prepared from the wood obtained from forest?

- (a) Paper
- (b) Thermocol
- (c) Matchsticks
- (d) Plywood

Soln:

Answer is (b) Thermocol

Explanation:

Paper, Matchsticks and plywood are prepared from the wood obtained from forest whereas thermocol is prepared from synthetic fibers.

6. Which of the following is not the name of a tree?

- (a) Teak
- (b) Sal
- (c) Porcupine
- (d) Kachnar

Soln:

Answer is (c) Porcupine

Explanation:

Porcupine is an animal whereas Teak, Sal and Kachnar are trees.

7. Pick the option which gives the names of a tree and an animal, respectively from the following.

- (a) semal, hornbill**
- (b) sal, khair**
- (c) chinkara, blue bull**
- (d) neem, palash**

Soln:

Answer is (a) semal, hornbill

Explanation:

Semal is a name of tree and hornbill is a name of an animal.

8. Which of the products is not obtained from a forest?

- (a) Honey**
- (b) Catechu**
- (c) Gum**
- (d) Ginger**

Soln:

Answer is (d) Ginger

Explanation:

Ginger is not obtained from forests it is cultivated in the farms.

9. The branchy part of a tree above the stem is known as

- (a) crown**
- (b) canopy**
- (c) sapling**
- (d) humus**

Soln:

Answer is (a) crown

Explanation:

Crown is the top part of the tree it consists of all the branches and leaves of the tree.

10. Forests are not responsible for

- (a) providing medicinal plants.**
- (b) maintaining the flow of water into the streams.**
- (c) creating flood conditions.**
- (d) absorbing rainwater and maintaining water table**

Soln:

Answer is (c) creating flood conditions.

Explanation:

Forests do not create flood rather they stop the flood by percolating the rainwater.

Very Short Answer Questions

11. Paheli while moving in a forest observed that there was no noise pollution, though lots of heavy vehicles were passing from the nearby highway. Explain why?

Soln:

In Forests there will be no noise pollution because forests absorb noise.

12. State whether the following statements are true or false. If false, give the correct statement.

- (a) Forests influence climate, water cycle and air quality.
- (b) In a forest, trees form the uppermost layer, followed by herbs. The shrubs form the lowest layer of vegetation.
- (c) The forest keeps on growing and changing and can regenerate.
- (d) Forests protect the soil from erosion.

Soln:

- a) True
- b) False- In a forest, trees form the uppermost layer, followed by shrubs. The herbs form the lowest layer of vegetation.
- c) True
- d) True

13. Paheli wrote a food chain in the following way:

frog → eagle → insects → grass → snake

The chain is not in the correct order. Help her to write the food chain correctly.

Soln:

grass → insects → frog → snake → eagle

Short Answer Questions

14. Give names of any four birds which you expect to see in a forest.

Soln:

Jungle crow, myna, dove, kingfisher

15. Two friends shared their experiences of their vacation trip to two different forests. Do you think they would have seen the same type of plants and animals during their respective trips? Give reason.

Soln:

No, They might not see same type of plants and animals in two different questions because climatic conditions in the two forests would be different which leads to variations in the types of plants and animals.

16. “A bunch of seedlings were seen sprouting on a heap of animal dropping in a forest.” How do you think is the seedling benefited from the animal dung?

Soln:

Growing seedlings obtain nutrients from decaying animal heap.

17. Match Column I with Column II

| Column I | Column II |
|----------------|----------------------------------|
| a) Decomposers | i) Dead plant and animal tissues |
| b) Canopy | ii) Habitat for wildlife |
| c) Porcupine | iii) Microorganisms |
| d) Humus | iv) Wild animal |
| e) Forest | v) Branches of tall trees |

Soln:

| Column I | Column II |
|----------------|----------------------------------|
| f) Decomposers | iii) Microorganisms |
| g) Canopy | v) Branches of tall trees |
| h) Porcupine | iv) Wild animal |
| i) Humus | i) Dead plant and animal tissues |
| j) Forest | ii) Habitat for wildlife |

18. Deforestation may lead to floods. Why?

Soln:

In the absence of trees soil loses its water holding capacity this causes floods. Hence deforestation leads to floods.

19. Name any four useful products other than wood, which we get from forests.

Soln:

Gum, Spices, medicinal plants, catechu

Long Answer Questions

20. Figure 17.1 shows a part of a forest.

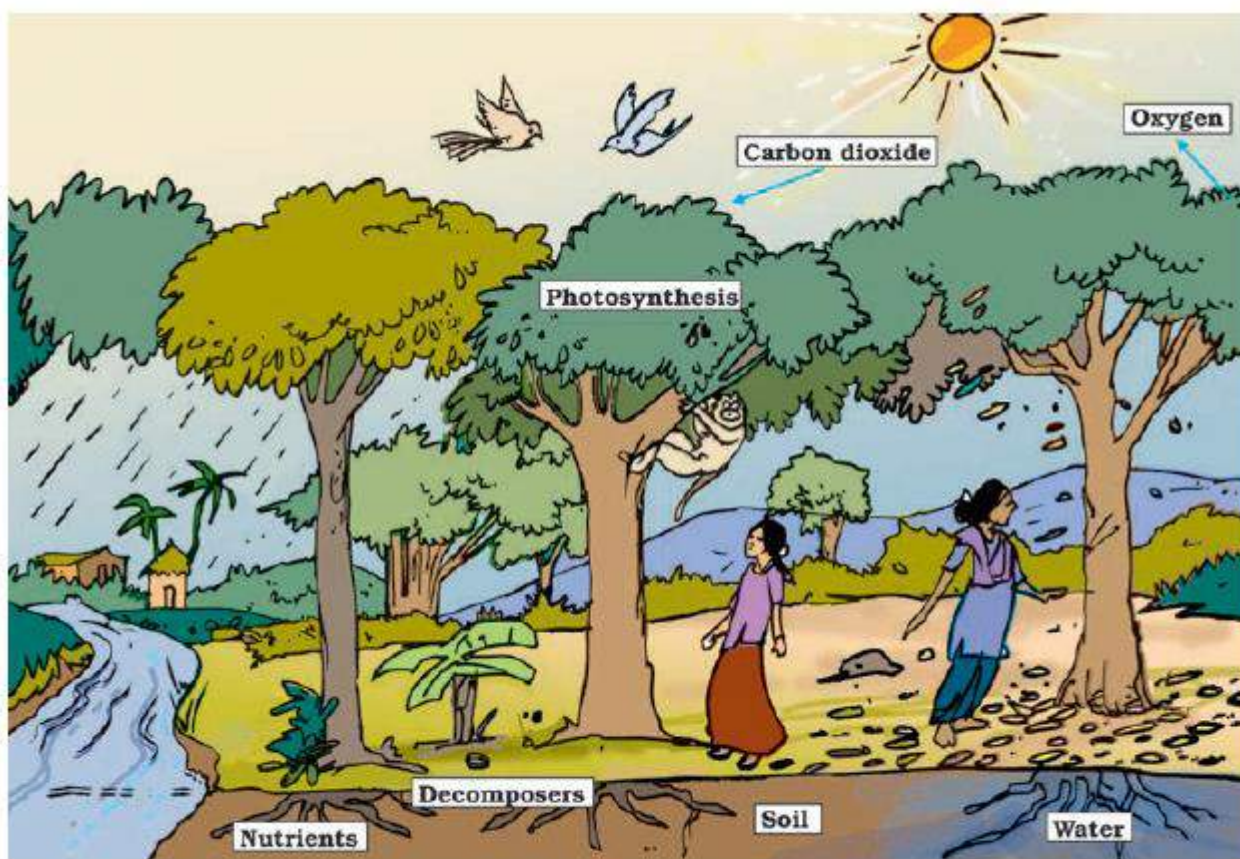


Fig. 17.1

Write any three activities going on in the forest on the basis of this figure.

Soln:

- i) Leaves of the plants gives out oxygen
- ii) Plants consume Carbon dioxide to prepare their food by the process of photosynthesis.
- iii) Decomposers play an important role in providing nutrients to plants.

21. People say that nothing goes waste in a forest. Can you explain, how?

Soln:

Nothing goes waste in a forest for the following reasons

- Dry leaves and remains of dead animals are converted to a dark coloured substance called humus. This provides nutrients to the plants.
- Dead animals become food for vultures, crows, jackals and insects.
- Broken branches of trees are used as fuel by the people living in the vicinity of the forest.

22. Give any four factors which are responsible for the destruction of forests.

Soln:

Factors responsible for the destruction of forests are

- (i) construction of roads.
- (ii) construction of buildings.
- (iii) industrial development.
- (iv) increasing demand of wood.

23. Draw a figure showing two animals, two birds and a few trees as a part of a forest.

Soln:



24. All the needs of animals living in a forest are fulfilled. Justify this statement in a few sentences.

Soln:

Animals are dependent on plants in the forest for many things. Plants provide O_2 to the animals to respire. Animals dependent on plants for the food either directly or indirectly. Herbivores obtain food directly from plants, carnivores depend on herbivores for food. Trees in forest provide shelter to forest animals. Hence it is said that needs of animals living in a forest are fulfilled.

25. “Forests are our lifeline.” Write five sentences on this topic.

Soln:

Forests are our lifeline for the following reasons

- (i) Forests give oxygen to keep us alive.
- (ii) Forests absorb carbon dioxide, a gas that contribute to climatic changes if its concentration increases in atmosphere.
- (iii) Forests provide us wood, gum, medicinal plants and spices.
- (iv) Forests save the soil from erosion.
- (v) Forests help in maintaining the ground water level.
- (vi) Forests avoid floods by increasing water holding capacity of the soil