

Very Short Answer Questions

Q.1. 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.

[NCERT Exemplar]

Ans. Forest absorbs the noise.

Q.2. 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

[NCERT Exemplar]

Ans. Grass → insects → frog → snake → eagle

Q.3. What is a canopy in a forest?

[NCERT Exemplar]

Ans. Branches of tall trees look like a roof on the other plants in the forest. This is called a canopy.

Q.4. “A bunch of seedlings was seen sprouting on a heap of animal dropping in a forest.” How do you think is the seedling benefited from the animal dung?

[NCERT Exemplar]

Ans. The decaying animal dung provides nutrients to the growing seedlings.

Q.5. Which part/parts of a tree is/are helpful in purifying air?

Ans. Leaves are helpful in purifying air.

Q.6. What do you understand by crown of a tree?

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

Q.7. Expand SPM.

Ans. Suspended Particulate Matter.

Q.8. What is a forest?

Ans. Forest is a large area covered with variety of flora and inhabiting various organisms.

Short Answer Questions

Q.1. 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.

[NCERT Exemplar]

Ans. No, they would not have seen the same type of plants and animals. This is so because climatic conditions in the two forests would vary leading to variations in the types of plants and animals.

Q.2. Deforestation may lead to floods. Why?

[NCERT Exemplar]

Ans. Lesser number of trees will be available due to deforestation. In this condition of absence of trees the soil will not hold water leading to floods.

Q.3. List some consequences of deforestation.

Ans.

- a. Loss of plants which provide herbs, medicines, fruits, etc.
- b. Global warming
- c. Destruction of ecosystem
- d. Soil erosion

Q.4. How do forests help to maintain the water table?

Ans. Through transpiration from the leaf surfaces of trees in forests, the water vapour reaches the atmosphere resulting in rainfall which maintains the water table.

Q.5. How can forests be conserved?

Ans.

- a. By not allowing overgrazing.
- b. Wildlife should be protected.
- c. Afforestation should be undertaken.
- d. Forest fires should be controlled.

Q.6. What is the 'economic significance' of forests?

Ans. Forests produce a number of economically important products like timber, bamboo, cane, oils, resins, etc. Forest animals provide honey, ivory, lac, etc.

Q.7. How do fallen leaves help the soil in for

Ans. Tiny insects and ants feed on the fallen leaves and convert them into dark-coloured humus which makes the soil fertile.

Long Answer Questions

Q.1. Give any four factors which are responsible for the destruction of forests.

[NCERT Exemplar]

Ans.

- a. Construction of roads.
- b. Construction of buildings.
- c. Industrial development.
- d. Increasing demand of wood.

Q.2. All the needs of animals living in a forest are fulfilled. Justify this statement in a few sentences.

[NCERT Exemplar]

Ans. Forest provides home (shelter) to the animals living there. It is a natural habitat to a variety of animal species. Animals get food and water from forest. Some animals are herbivorous which eat plants to survive. Through transpiration, forest makes it possible for water vapour to reach the atmosphere in large quantities and leads to rain. Thus, provide water to the animals.

Q.3. What would happen if forests will disappear from earth?

Ans. (i) If forest disappear, the amount of carbon dioxide in air will increase, resulting in the increase of earth's temperature.

(ii) In absence of trees and plants the animals will not get food and shelter.

(iii) In the absence of trees, the soil will not hold water, which will cause floods.

(iv) Deforestation will endanger our life and environment.

HOTS (Higher Order Thinking Skills)

Q.1. Why are trees planted alongside the roads?

Ans. Trees absorb the noise of the vehicles on roads and reduce noise pollution. Therefore, trees are planted alongside the roads.

Q.2. Why are forests called 'green lungs'?

Ans. As forests are covered with green trees and bushes which maintain the balance of oxygen and carbon dioxide in the atmosphere, they are called 'green lungs'.

Q.3. Why is energy lost at every step of a food chain?

Ans. Energy is lost at each link of the food chain due to **(i)** food that cannot be digested and is passed out of the organism and **(ii)** energy that is used up by the organism for carrying out its activities.