Interdependence of Plants and Animals

A. Choose the Correct Answer:

1. How do plants and animals depend on each other?

a) Animals give oxygen to plants, and plants give food to animals

b) Plants provide food and oxygen, while animals give carbon dioxide and help in pollination

c) Plants and animals compete for resources

d) Animals do not need plants for survival

2. What do plants release during photosynthesis that animals need?

a) Carbon dioxide

b) Oxygen

c) Nitrogen

d) Water vapor

3. Which of the following is an example of interdependence between plants and animals?

a) Plants give fruits, and animals give water

b) Animals protect plants from sunlight

c) Bees pollinate flowers while collecting nectar

d) Plants breathe in carbon dioxide and release nitrogen for animals

B. Fill in the Blanks:

1. Plants provide _____ to animals during photosynthesis.
2. Animals release _____, which plants use to make food.
3. Bees and butterflies help in _____ while collecting nectar from flowers.

C. Case Study:

Riya visited her grandmother's farm.

- She saw bees buzzing around the flowers, collecting nectar.
- Her grandmother explained that while collecting nectar, bees help in pollinating the flowers.
- She also noticed cows grazing on grass and resting under the shade of large trees.
- Her grandmother told her that cows release carbon dioxide, which is used by the trees for photosynthesis.

Case Study Questions:

1. How did the bees help the plants on the farm?
2. Why were the cows resting under the trees?
3. What gas did the cows release that plants use?
4. How does the process of pollination benefit both plants and bees?

D. Short Answer Questions:

1. How do animals help plants?
2. How do plants help animals?
3. What is pollination, and how do animals assist in it?

E. Long Answer Questions:

1. Explain the interdependence of plants and animals with examples.
2. Why is the exchange of oxygen and carbon dioxide between plants and animals important?
3. How do animals contribute to seed dispersal and plant reproduction? Explain in detail.