

Diversity in Plants and Animals Around Us

A. Choose the correct answer:

1. Which of the following best describes biodiversity?

- a) The variety of plants and animals in an ecosystem
- b) The number of humans on Earth
- c) The process of making new scientific discoveries
- d) The study of the solar system

2. Which of these is an example of diversity in plants?

- a) All plants looking the same
- b) Different types of plants such as trees, shrubs, and herbs
- c) Only one type of plant growing in a forest
- d) All plants needing the same environmental conditions

3. Why is animal diversity important for the environment?

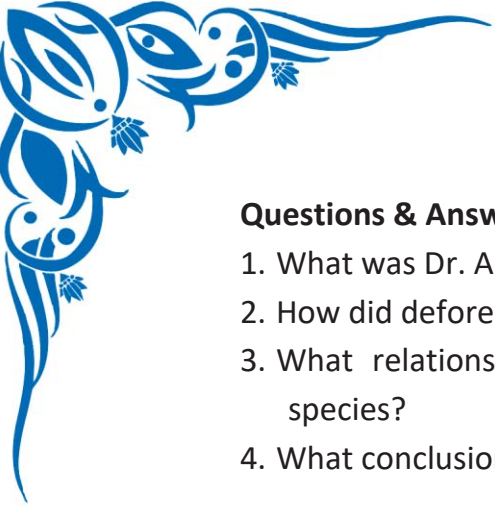
- a) It makes nature more colorful
- b) It ensures a balance in the ecosystem and food chain
- c) It helps plants grow faster
- d) It reduces the need for human intervention in nature

B. Fill in the Blanks:

1. The variety of living organisms, including plants and animals, in a particular area is known as _____.
2. A forest ecosystem has a rich diversity of _____ and _____, which depend on each other for survival.
3. Birds, reptiles, mammals, and amphibians are examples of _____ in the animal kingdom.

C. Case Study:

- A biologist named Dr. Arjun was studying the biodiversity of a tropical rainforest. He observed a variety of plants, such as large trees, vines, ferns, and flowering plants. He also recorded many species of insects, birds, reptiles, and mammals.
- While studying, he noticed that deforestation in some areas led to a decline in certain bird species, as they lost their natural habitat. However, areas with dense tree cover had a greater number of animal species thriving.
- Dr. Arjun concluded that biodiversity is directly influenced by environmental conditions and human activities.



Questions & Answers:

1. What was Dr. Arjun studying in the tropical rainforest?
2. How did deforestation affect bird species in the area?
3. What relationship did Dr. Arjun observe between tree cover and animal species?
4. What conclusion did Dr. Arjun draw about biodiversity and human activities?

D. Short Answer Questions:

1. What factors contribute to the diversity of plants and animals in an ecosystem?
2. How does biodiversity benefit the environment?
3. Why is it important to protect plant and animal diversity?

E. Long Answer Questions:

1. Explain the different types of plant diversity found in nature and their importance to the ecosystem.
2. How do different types of animals adapt to their habitats? Give examples.
3. Discuss the impact of deforestation on biodiversity and suggest ways to conserve plant and animal life.