

Plants and Animals in Different Surrounding US

A. Choose the correct answer:

1. What is the primary reason for the diversity of plants and animals in different environments?
 - a) Random occurrence
 - b) Adaptation to surroundings
 - c) Human intervention
 - d) Lack of food
2. Which of the following is an example of an animal adapting to its environment?
 - a) A cat drinking milk
 - b) A fish developing gills to breathe underwater
 - c) A dog sleeping at night
 - d) A bird eating seeds
3. How do plants survive in dry desert environments?
 - a) By storing water in their leaves and stems
 - b) By growing taller to reach water
 - c) By having broad leaves to absorb more moisture
 - d) By depending on animals for water

B. Fill in the Blanks:

1. The diversity of plants and animals in different surroundings is due to their ability to _____ to their environment.
2. In aquatic environments, animals like fish have _____ to help them breathe underwater.
3. Plants in cold regions often have _____ leaves to reduce water loss.

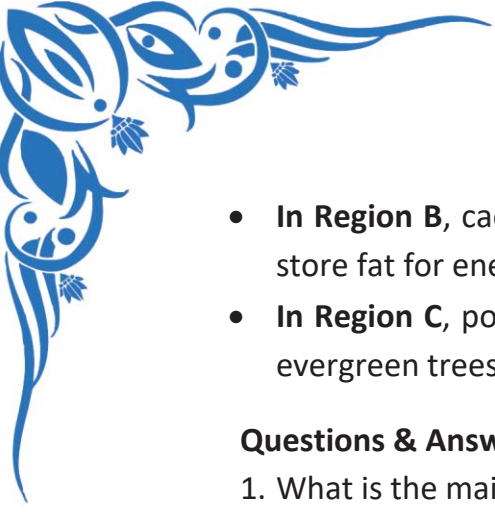
C. Case Study:

A scientist named Dr. Ananya is researching how different types of animals and plants adapt to their surroundings. She studies three different regions:

- **Region A:** A dense tropical rainforest with high humidity and frequent rainfall.
- **Region B:** A dry desert with extreme heat and little water.
- **Region C:** A cold polar region covered in snow for most of the year.

Dr. Ananya observes the following adaptations:

- **In Region A,** plants have large, broad leaves to absorb sunlight, and animals like monkeys have strong limbs to climb trees.



- **In Region B**, cacti have thick stems to store water, and camels have humps to store fat for energy.
- **In Region C**, polar bears have thick fur and a layer of fat to keep warm, while evergreen trees have needle-like leaves to conserve water.

Questions & Answers:

1. What is the main objective of Dr. Ananya's research?
2. Why do plants in Region A have broad leaves?
3. How do camels survive in the desert?
4. What adaptations help animals survive in the polar region?

D. Short Answer Questions:

1. Why do different environments support different types of plants and animals?
2. How do desert plants conserve water?
3. What special adaptations help animals survive in cold climates?

E. Long Answer Questions:

1. Explain how plants and animals adapt to life in a rainforest, desert, and polar region.
2. Why is biodiversity important for maintaining the balance of nature? Provide examples.
3. Describe how aquatic animals have adapted to live in water and how these adaptations help them survive.