## The Root

#### A. Choose the correct answer:

- 1. Which type of plants are adapted to live in deserts?
  - A) Aquatic plants
  - B) Cactus and Succulents
  - C) Climbers
  - D) Evergreen trees
- 2. Why do lotus and water lily plants have broad leaves?
  - A) To attract insects
  - B) To store food
  - C) To float easily on water
  - D) To protect from animals
- 3. Which of the following plants has spines instead of leaves to reduce water loss?
  - A) Mango tree
  - B) Cactus
  - C) Rose
  - D) Sunflower

#### B. Fill in the Blanks:

1. The process by which plants adjust to their surroundings is called	
2. Plants that grow in water are called	_ plants.

## C. Case Study:

A botanist, Dr. Meera, studied how different plants survive in extreme conditions. She observed three types of plants:

- Plant A grew in deserts and had thick stems for storing water, with spines instead of leaves.
- Plant B grew in ponds and had broad leaves that floated on water.
- Plant C climbed on other plants using tendrils to get sunlight.

3. The spines in desert plants help reduce \_\_\_\_\_ loss.

After her study, she concluded that different plants develop special features to survive in their natural surroundings.

# **Case Study Questions:**

- 1. What type of plant could Plant A be, and how is it adapted to its environment?
- 2. Why does Plant B have broad, floating leaves?
- 3. How do climbers like Plant C benefit from using tendrils?
- 4. Based on Dr. Meera's study, why do plants have different adaptations?

### **D. Short Answer Questions:**

- 1. What is adaptation in plants?
- 2. How do desert plants survive in dry conditions?
- 3. Why do some plants grow in water while others cannot?

## **E.** Long Answer Questions:

- 1. Explain the different types of plant adaptations with examples.
- 2. How do aquatic plants differ from desert plants in their adaptations?
- 3. Discuss how plants adapt to protect themselves from animals.