



## The Shoot System

### A. Choose the Correct Answer:

1. Which part of the plant makes up the shoot system?
  - A) Roots
  - B) Stem, leaves, flowers, and fruits
  - C) Only the leaves
  - D) Only the flowers
2. What is the main function of the stem in a plant?
  - A) To absorb water from the soil
  - B) To support the plant and transport water, minerals, and food
  - C) To capture sunlight for photosynthesis
  - D) To store food
3. Which part of the shoot system is responsible for photosynthesis?
  - A) Roots
  - B) Stem
  - C) Leaves
  - D) Flowers

### B. Fill in the Blanks:

1. The shoot system consists of the \_\_\_\_\_, leaves, flowers, and fruits of a plant.
2. The stem transports \_\_\_\_\_ and \_\_\_\_\_ from the roots to different parts of the plant.
3. Leaves are known as the \_\_\_\_\_ of the plant because they make food through photosynthesis.

### C. Case Study:

- A gardener named Mr. Sharma planted two saplings in his garden. One sapling received proper sunlight, water, and nutrients, while the other was placed in a dark corner with little water.
- After a few weeks, he observed that the first plant had strong stems, green leaves, and flowers, while the second plant had weak, yellow leaves and was not growing well.



### **Case Study Questions:**

1. What was the main difference in the conditions provided to both saplings?
2. Why did the second plant not grow properly?
3. How do sunlight and water help the shoot system in a plant?
4. What would happen if a plant's stem were damaged?

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

1. What is the shoot system in plants?
2. How does the stem help in the growth of a plant?
3. Why are leaves important for plants?

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

1. Describe the different parts of the shoot system and their functions.
  2. Explain how the shoot system and root system work together to keep a plant healthy.
  3. How do flowers and fruits contribute to the life cycle of a plant?
- 