

Other Modes of Nutrition in Plants

A. Choose the Correct Answer:

1. Which of the following plants follows a parasitic mode of nutrition?
 - A) Mango
 - B) Cuscuta
 - C) Sunflower
 - D) Neem
2. What type of nutrition is observed in fungi like mushrooms?
 - A) Autotrophic
 - B) Parasitic
 - C) Saprophytic
 - D) Insectivorous
3. Which plant traps and digests insects for nutrients?
 - A) Cactus
 - B) Pitcher plant
 - C) Rose
 - D) Peepal

B. Fill in the Blanks:

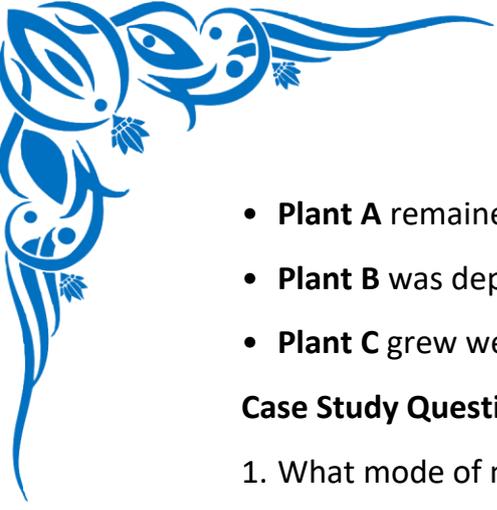
1. _____ mode of nutrition involves obtaining food from dead and decaying matter.
2. Plants like Venus flytrap show _____ mode of nutrition to obtain essential nutrients.
3. A plant that absorbs nutrients from its host without giving any benefit in return is called a _____.

C. Case Study:

A group of students conducted an experiment to observe different modes of nutrition in plants. They observed three types of plants:

- **Plant A** was growing normally using sunlight, water, and carbon dioxide.
- **Plant B** was attached to another plant and had no green leaves.
- **Plant C** grew on a dead log and did not require sunlight for survival.

After a few weeks, they recorded the following observations:



- **Plant A** remained healthy and produced its own food.
- **Plant B** was dependent on another plant for nutrients.
- **Plant C** grew well but relied on decomposed material.

Case Study Questions:

1. What mode of nutrition does Plant A exhibit?
2. Why was Plant B dependent on another plant for its nutrients?
3. What is the mode of nutrition observed in Plant C?
4. How does studying different modes of nutrition help in understanding plant survival strategies?

D. Short Answer Questions:

1. What is heterotrophic nutrition in plants?
2. How do insectivorous plants obtain their food?
3. What is the difference between parasitic and saprophytic nutrition?

E. Long Answer Questions:

1. Explain the different types of heterotrophic nutrition found in plants with examples.
2. Describe the role of saprophytic plants in the ecosystem and their importance in nature.
3. Discuss how parasitic plants affect their host plants and give examples of such plants.