



KALPAVRUKSHA MODEL SCHOOL

Online class Assignments Answers

Class: VII

Sub: Biology

Date: 05.06.2021

Topic: Nutrition in plants

I. Answer the following questions:

1. Differentiate between parasitic and saprophytic plants.

Parasitic Plants	Saprophytic plants
1) Plants which depend on living organisms for nutrition are called parasitic plants.	1) Plants which depend on dead and decay plants and animals for nutrition are called saprophytic plants.
Ex: Cuscuta (Dodder), Mistletoe	Ex: Indian Pipe, coral roots

2. Differentiate between insectivorous and symbiotic plants.

Insectivorous plants	Symbiotic plants
1) Plants that derive their nutrients by trapping and consuming insects are called insectivorous plants.	1) Plants that live in association with other organisms, share food are called symbiotic plants
Ex: pitcher plant, sundew, Venus flytrap, bladderworts.	Ex: lichens, fungi, bacteria and root nodules of pea plant.

3. With the help of three examples, discuss how leaves of insectivorous plants are modified to trap insects.

Ans: *Pitcher plant:* The leaf of the pitcher plant is modified to form a tubular pitcher-like structure. The inside of the pitcher is lined with downward pointing hair that does not allow any trapped insect to climb

up and escape. The fluid at the bottom of the pitcher contains digestive juices that digest the insect.

Bladderworts: The slender leaves of bladderworts bear a large number of very small, pear-shaped bladder structure, which act like trapdoors and suck in small insects in less than a second.

Venus flytrap: The Venus flytrap has leaves that are modified to trap insects. The inner surface of the leaves have short, stiff hair. When an insect touches the hair, the leaves snap shut in less than a second. The insect is then digested.

4. Do you think saprophytes help us in keeping the environment clean?
How?

Ans: Yes, saprophytes help us in keeping the environment clean. They depend upon rotting materials for their nutrition. If rotting materials are cleaned up than environment becomes clean. So, they help in keeping the environment clean.
