

Std ---VI Subject—Biology

Chapter ---1. THE LEAF

Short answer questions :

1. Name the following:

(I)The part of the plant which grows under the ground: Root

(ii)The part of the plant which grows above the soil: Shoot

(ii)The wide flat portion of the leaf : Lamina

2. What are the four functions of roots?

Ans- The four functions of roots are :

(I)They grow into the soil and fix the plant firmly to the ground.

(ii) Absorbs water and minerals from the soil for the growth of the entire plant.

(iii)Binds the soil together so that it does not get washed away during rain blown away by the wind.

(IV)Storage of food and nutrients.

3.Mention the functions of the following:

(I)Spines. (ii)Tendrils. (iii)Scale leaves

(I)Spine

*Spines protect the plant from being eaten by animals.

*Spines defend the plant as well as reduce the loss of water through transpiration

(ii) Tendrils

*The tendrils twine around some support such as a post or a tree and help the plant climb.

*Tendrils do not have a Lamina or blade but they can photosynthesize.

(iii)Scale leaves

*It protect the bud that it bears in its axil.

*In some plants like onion and ginger, thick and fleshy or thin and dry Scale leaves are present
-respectively .Their function is to store food.

4. Define venation. What are the different types of venation found in the leaves?

Ans—Arrangement of veins in Lamina is called Venation.

The different types of venation found in the leaves are:

Reticulate venation and Parallel Venation

5. Describe the modifications of leaf in any one insectivorous plant .

Ans—The modifications of leaf in pitcher plant.

In the pitcher plant, the leaf is modified into a pitcher-shaped structure with a lid. The lid closes as soon as an insect enters the pitcher. The pitcher contains a sticky liquid that makes the insects – slide down its wall. The insect then drowns in the liquid and is digested.

6. Write the two main functions of leaves.

Ans—The two main functions of leaves are Photosynthesis and Transpiration.

7. Define :

(i) Photosynthesis (ii) Transpiration

(i). Photosynthesis-----The process by which a plant leaf prepares or synthesise food from water and carbon dioxide in the presence of chlorophyll and sunlight is called Photosynthesis.

(ii) Transpiration-----The process by which water is lost in the form of water vapour by the evaporation from the surface of leaves and other aerial parts of a plant is called transpiration.