

CH : 1. Nutrition in Plants

NUTRIENTS : The components of food that are necessary for our body are called **nutrients**.

Such as : carbohydrates, proteins, fats, vitamins and minerals.

The nutrients enable living organisms to build their bodies, to grow, to repair damaged parts of their bodies and provide the energy to carry out life processes.

NUTRITION : It is the mode of taking food by an organism and its utilisation by the body.

MODE OF NUTRITION :

A] AUTOTROPHIC - The mode of nutrition in which organisms make food themselves from simple substances is called **autotrophic** (*auto* = self; *trophos* = nourishment) nutrition.

B] HETEROTROPHIC - The mode of nutrition in which organisms take in ready made food prepared by the plants is called **heterotrophic** (*hetero* = others; *trophos* = nourishment) nutrition.

ORGANISMS ON THE BASIS OF NUTRITION

A] AUTOTROPHS : Organisms having autotrophic mode of nutrition are called Autotrophs. Such as : Plants

B] HETEROTROPHS - Organisms having heterotrophic mode of nutrition are called Heterotrophs. Such as : Animals

1.1 MODE OF NUTRITION IN PLANTS

- Plants are the only organisms that can prepare food for themselves by using water, carbon dioxide and minerals.

- **Where the food factories of plants are located:**

The food factories of plants are located in the leaves.

- **Whether food is made in all parts of a plant or only in certain parts?**

No, food is not made in all parts of a plant; It is made in certain parts i.e

Leaves

- **How do plants obtain the raw materials from the surroundings?**

Plants obtain the raw materials water and minerals from soil and carbon dioxide from atmosphere.

- **How do plants transport the raw materials to the food factories of the plants?**

Plants transport the raw materials water and minerals from the roots and carbon dioxide from stomata.
