CHAPTER-1 - NUTRITION IN PLANTS

NOTES:

Nutrients: Components of food i.e. carbohydrates, fats, proteins, vitamins and minerals which are essential for the growth and development of an organism. Nutrients are the substances which provide nutrition.

Nutrition: The process of taking in food and converting it into energy and other vital nutrients required for life.

Autotrophs: Auto means **self**; trophos means **nourishment**. It means the organisms which make food themselves from simple substances

Heterotrophs: Heteros means **other**; trophos means **nourishment**. It means the organisms which depend on others for their food.

Autotrophic Nutrition: Mode of nutrition in which organisms make food themselves from simple substances.

Heterotrophic Nutrition: mode of nutrition in which organisms depend on plants and other organisms for their food.

Chlorophyll: a green pigment present in the leaves of green plants which helps in the process of photosynthesis.

Photosynthesis: Photo means **light**; synthesis means **to prepare**. It is the process of manufacturing food by utilising sunlight, carbon dioxide, water and chlorophyll present in green leaves.

Stomata: tiny pores present on the surface of the leaves which are surrounded by guard cells through which carbon dioxide from the air is taken in.

Algae: slimy green patches in ponds or stagnant water bodies which are green in colour due to the presence of chlorophyll which enables to undergo photosynthesis process.

Host: organism that harbours another organism, inside or near their body, in a symbiotic relationship.

Parasite: organism that derives nutrients from another organism without benefiting the host.

Insectivorous: organism which depends or feed on insects for supplementing their want of nutrients.

Saprotrophic nutrition: mode of nutrition in which organism takes in nutrients from dead and decaying organic matter.

Saprotrophs: organisms with saprotrophic mode of nutrition.

Symbiosis: some organisms lives together and share both shelter and nutrients.