

**Chapter 1**

**Nutrition in Plants**

**1. What are nutrients?**Ans. The components of food that are necessary for our body are called nutrients.

**2. What are different modes of nutrition?**

Ans. There are two basic mode of nutrition:

* Autotrophic Nutrition
* Heterotrophic Nutrition

**3. What is autotropic mode of nutrition?**

Ans. The mode of nutrition in which organisms make food themselves from simple substances is called autotrophic nutrition.

**4. What is heterotrophic mode of nutrition?**

Ans. Animals and most other organisms depend on plants for their food (or nutrition). This mode of nutrition is known as heterotrophic nutrition.

**5. What is chlorophyll?**

Ans. The leaves have a green pigment called chlorophyll. It helps leaves to capture the energy of the sunlight.

**6. Define photosynthesis.**

Ans. The process by which green plants use sunlight to prepare their food from carbon dioxide and water is known as photosynthesis.

**7. What are cells?**Ans. The bodies of living organisms are made of tiny units called cells.

**8. What is a cell membrane?**Ans. The cell is enclosed by a thin outer boundary, called the cell membrane.

**9. What is nucleus?**Ans. Nucleus is the central and most important part of a cell, basis for its activity and growth.

**10. Define stomata.**

Ans. The tiny pores on the surface of leaves which accounts for the exchange of gases, are called stomata.

**11. How do those plants get food which do not have chlorophyll in them?**Ans. Due to absence of chlorophyll they cannot make their own food, so they use heterotrophic mode of nutrition. Example – Cuscuta

**12. What are hosts?**

Ans. The plant on which other plants climbs in order to satisfy their food requirements, are called hosts.

**13. What are insectivorous plants?**Ans. Insect-eating plants are known as insectivorous plants.

**14. What are parasites?**Ans. Plants which live in or on another plant (its host) and benefit by deriving food at the other's expense are known as parasites. This mode of nutrition is called parasitic nutrition.

**15. What are saprotrophs?**Ans. Plants which take their food from dead and decaying matter are known as saprotrophs. This mode of nutrition is called saprotrophic nutrition.