

## Biology (New Book) - 9th Class Biology Urdu Medium Chapter 9 Preparation

Q1. Define the term Transpiration.

**Ans 1:** The loss of water in the form of vapours from plant surface is called transpiration.

Q2. What is the role of magnesium in plant growth.

**Ans 1:** i. Magnesium is part of the chlorophyll  
ii. It also activates many plant enzymes needed for growth.  
iii. It also helps in fruit formation and germination of seeds.

Q3. Define nutrition

**Ans 1:** Nutrition means the processes in which food is prepared or obtained and converted into body substances for growth and energy.

Q4. State the roles of nitrogen and magnesium in plants.

**Ans 1:** Nitrogen is a component of proteins, chlorophyll and enzymes. It catalyzes biochemical reactions within plant cells. Magnesium is a component of chlorophyll; it activates many enzymes.

Q5. What are the types of plants on the basis of habitats.

**Ans 1:** i. Mesophyte ii. Hydrophytes iii. Xerophytes iv. Halophytes.

Q6. Define Osmosis

**Ans 1:** It is the movement of water molecules through a semi-permeable membrane from a region of lower solute concentration to a region of higher solute concentration.

Q7. Define mineral nutrition in plants.

**Ans 1:** Plants get their food from a process called photosynthesis. But for the synthesis of other biomolecules, they need other materials from soil. Such materials are called mineral nutrients and the process through which these special chemicals are absorbed from soil that are essential for the plants to grow is called mineral nutrition.

Q8. Define Autotrophic

**Ans 1:** Autotrophic organisms obtain water, carbon dioxide and minerals from their environment and prepare their food.  
Example: Some bacteria, all algae, and all plants.

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Q9. What is Active transport

**Ans 1:** It is a movement of molecules across a cell membrane from a low concentration to a high concentration using energy.

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Q10. Define Guttation

**Ans 1:** Guttation : The process that involves the release of water droplets through small pores located at the tips or edges of leaves.

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