

St. Andrews Scots Sr. Sec. School
9th Avenue, I.P. Extension, Patparganj, Delhi – 110092
Session: 2025-2026
Worksheet -1

Class: VII

Subject: Science

Topic: Nutrition in Plants

Q1. Define:

1. Guard Cells
2. Autotrophic Nutrition
3. Insectivorous Plants
4. Haustoria
5. Xylem Vessels

Q2. Fill in the blanks:

1. In plants the food is transported in the form of _____ by the phloem to different parts of plants.
2. _____ solution is used to absorb carbon dioxide gas present.
3. _____ coined the term Photosynthesis.
4. _____ solution is used to check the presence of starch.
5. _____ are the substances which contain nitrogen.

Q3. Multiple Choice Questions:

1. Which bacteria is present in the root nodules of leguminous plants?
(i) E.coli (ii) Streptococcus (iii) Rhizobium (iv) Pseudomonas
2. Indian pipe and coral roots are examples of which type of mode of nutrition?
(i) Parasitic (ii) Saprotrophic (iii) Symbiotic (iv) Insectivorous
3. In pitcher plant the apex of the leaf is modified into _____ like structure.
(i) pitch (ii) lamina (iii) hair (iv) lid
4. Which of the following is an example of partial parasitic mode of nutrition?
(i) Drosera (ii) Ultricularia (iii) Mistletoe (iv) Cuscuta
5. Which of the following is an example of aquatic plant?
(i) Caladium (ii) Vallisneria (iii) Japanese knotweed (iv) Giant Hogweed

Q4. Answer the following in one word:

1. Name the cell organelle in which process of photosynthesis occur.
2. What is the mode of nutrition in fungi?
3. What is the basic requirement of living organism for obtaining energy?
4. Which substance is used to remove chlorophyll from the leaves during photosynthesis experiment?
5. What is the name of the cells which control the opening and closing of stomata?

Q5. Answer the following questions:

1. What are Lichens? Which type of association is shown by them? Explain in brief.
2. Why is Cuscuta, categorized as a parasite?
3. In the absence of photosynthesis, life would be impossible on earth. Justify the statement.
4. Differentiate between the following:
 - (a) Autotrophic and heterotrophic mode of nutrition
 - (b) Xylem vessels and phloem
5. Why do we boil the leaf in alcohol when we are testing it for starch?