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# **Nutrition in Plants**

#### **ORAL QUESTIONS**

## A. Answer these questions orally.

- 1. What is the green pigment that is essential for photosynthesis called?
- 2. What are the various components of food that are necessary for our body called?
- 3. Name the gas used by green plants to manufacture their food.
- 4. Where is chlorophyll present in green plants?
- 5. During photosynthesis, green plants convert solar energy into which type of energy?

#### **PUZZLE/QUIZ**

## B. Solve the crossword puzzle with the help of the clues given.

ACROSS: 1. The components of food that are necessary for our body.

- 6. Pitcher plant is an example of this type of plant.
- 8. A plant with variegated leaves.
- 9. The ultimate source of energy.
- 10. A partial parasite.

DOWN: 1. The process of taking food by an organism and the utilisation by the body.

- 2. Organisms that synthesise their food from simple inorganic substances.
- 3. Another name for autotrophs.
- 4. The plant that provides food to the parasitic plant.
- 5. These are symbiotic organisms.
- 7. Association between two organisms in which both the organisms living together are benefitted.

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C.	Given below are some jumbled words. A help from the clues given in the bracke	Arrange them into meaningful words. Take ts.
1.	S S E A T P Y R H O F	
	(Organisms that derive nutrients from d	ead and decaying plants and animals)
2.	A S T T A O M	
	(Tiny pores on the under surface of leave	es)
3.	S H H E P T O E R R 7	' O
	(Organisms which cannot manufacture	their food)
4.	A C T U U S C	
	(A total parasite)	
5.	M R U H I I B Z O	
	(These bacteria show symbiotic relations	ship with leguminous plants)
	CLAS	S TEST
D.	MCQ-Tick (3) the correct option.	
1.	. Breaking down of complex insoluble org	anic compounds into simple soluble molecules is
	(a) Digestion	(b) Absorption
	(c) Assimilation	(d) Egestion
2.	. This organ in human begins with mouth	and ends with anus
	(a) Stomach	(b) Alimentary canal
	(c) Food pipe	(d) Buccal cavity
3.	. In human, this type of teeth are used for	tearing
	(a) Molars	(b) Premolars
	(c) Incisors	(d) Canines
4.	The largest gland in the human body is	
	(a) Adrenal gland	(b) Salivary gland
	(c) Pancreas	(d) Liver

E.	Very short answer questions.	
1.	What is the full form of ATP?	
2.	What is photosynthesis?	
3.	What are the essential requirements for pho-	tosynthesis?
4.	What is symbiotic relationship?	
5.	Name four insectivorous plants.	
6.	What type of nutrition is found in green pla	nts?
7.	What type of nutrition is found in nongreen	plants?
8.	In which type of plants is digestive juice secr	eted to digest the insects?
9.	What is the naturally beneficial relationship	between two living organisms called?
F.	Short answer questions.	
1.	Differentiate between the following.  (a) Autotrophs and Heterotrophs	
	AUTOTROPHS	HETEROTROPHS

(b) Parasitic and Saprophytic Nutrition

	PARASITIC NUTRITION	SAPROPHYTIC NUTRITION
2	White the result agestion for the new coor of a	hataarrathasia in arrang plants
۷.	Write the word equation for the process of p	notosynthesis in green plants.
3.	In what form is food synthesised in green pla	ants?
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4.	How do plants get the nitrogen required for	the synthesis of proteins?
5.	Is parasitic plant harmful for the host plant?	
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6.	How do fruits and bread get fungal growth?	
	Long answer questions.	11.6.1
1.	What special structure of leaves make it suita	able for photosynthesis?
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	Draw the diagrams of an open stomata and a closed stomata. Label them clearly.
•	Are all fungi harmful?
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	Explain the symbiotic relationship between leguminous plants and rhizobium.

# **HOME ASSIGNMENT**

	Think and answer.
1.	Mistletoe has green leaves and can synthesise its food. Why is it called a partial parasite?
2.	Coleus plant has red or brown coloured leaves, but carries out photosynthesis. How?
3.	Insectivorous plants are green plants. They prepare their food by photosynthesis but still trap and digest insects. Why?
4.	Sarthak kept a potted plant in dark for three days. He then plucked a leaf from this plant and tested it for starch. He found the result negative. What is the reason for this observation?
	WORKSHEET
I.	Give reasons for the following.
1.	Our body cannot synthesise food from carbon dioxide, water and minerals like plants do

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