

## 1. Nutrition in Plants

Question 1.

The plant which traps and feeds on insects is:

- (a) Cuscuta
- (b) China rose
- (c) Pitcher plant
- (d) Rose

▼ [Answer](#)

Answer: (a)

Pitcher plant is the plant which traps and feeds on insects.

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Question 2.

Plants take carbon dioxide from the atmosphere mainly through their:

- (a) Roots
- (b) Stem
- (c) Flowers
- (d) Leaves

▼ [Answer](#)

Answer: (d)

Plants take carbon dioxide from the atmosphere mainly through their leaves.

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Question 3.

The internal factor affecting the process of photosynthesis is:

- (a) Temperature
- (b) Chlorophyll
- (c) Light
- (d) Water

▼ [Answer](#)

Answer: (b)

Chlorophyll is the internal factor affecting the process of photosynthesis.

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Question 4.

Organisms need nutrition to:

- (a) Obtain energy
- (b) Fight against diseases
- (c) Grow
- (d) All of these

▼ [Answer](#)

Answer: (a)

Organisms need nutrition to obtain energy, fight against diseases and grow.

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Question 5.

The chemical used in starch test is:

- (a) Safranin
- (b) Blue ink
- (c) Iodine
- (d) Litmus

▼ [Answer](#)

Answer: (a)

Iodine is the chemical used in starch test.

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Question 6.

Pitcher plant falls in the category of:

- (a) Herbivore
- (b) Insectivore
- (c) Carnivore
- (d) None of these

▼ [Answer](#)

Answer: (a)

Pitcher plant falls in the category of insectivore.

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Question 7.

Parasites:

- (a) live on dead organisms
- (b) eat animals
- (c) prepare their own food
- (d) live on other living beings

▼ [Answer](#)

Answer: (a)

Parasites live on other living beings.

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Question 8.

Water reaches the leaves from the root by:

- (a) Stomata
- (b) Phloem
- (c) Xylem
- (d) None of these

▼ [Answer](#)

Answer: (a)

Water reaches the leaves from root by xylem.

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Question 9.

It is not advisable to sit under the trees at night because:

- (a) Carbon dioxide ratio is higher under the trees at night
- (b) Trees sleep at night
- (c) Plants make food during the night
- (d) None of these

▼ [Answer](#)

Answer: (a)

It is not advisable to sit under the trees at night because carbon dioxide ratio is higher under the trees at night.

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Question 10.

The gas used from the atmosphere during photosynthesis is:

- (a) Hydrogen
- (b) Nitrogen
- (c) Carbon dioxide
- (d) Oxygen

▼ [Answer](#)

Answer: (a)

Carbon dioxide is the gas used from the atmosphere during photosynthesis.

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Question 11.

The ultimate source of energy for all living organisms is:

- (a) Plants
- (b) Sun
- (c) Oxygen
- (d) None of these

▼ [Answer](#)

Answer: (a)

Sun is the ultimate source of energy for all living organisms.

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Question 12.

Product of photosynthesis are:

- (a) Carbon dioxide and oxygen
- (b) Carbohydrate and carbon dioxide
- (c) Carbohydrate and oxygen
- (d) None of these

▼ [Answer](#)

Answer: (a)

Carbohydrate and oxygen are product of photosynthesis.

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Question 13.

A parasitic plant with yellow, slender and tubular stem is:

- (a) Pitcher plant
- (b) Cuscuta
- (c) Sunflower
- (d) None of these

▼ [Answer](#)

Answer: (a)

Cuscuta is a parasitic plant with yellow slender and tubular stem.

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Question 14.

The mode of nutrition in which organisms take in nutrients in solution form from dead and decaying matter is:

- (a) Heterotrophic nutrition
- (b) Autotrophic nutrition
- (c) Saprotrophic nutrition
- (d) None of these

▼ [Answer](#)

Answer: (a)

Saprotrophic nutrition is the mode of nutrition in which organisms take in nutrients in solution form from dead and decaying matter.

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Question 15.

Which of the following shows symbiotic relationship ?

- (a) Lichens
- (b) Rhizobium bacteria and leguminous plants
- (c) Both (a) and (b)
- (d) None of these

▼ [Answer](#)

Answer: (a)

Lichens, Rhizobium bacteria and Leguminous plants both show symbiotic relationship.

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Question 16.

The process by which green plants prepare their own food is known as:

- (a) Transpiration
- (b) Photosynthesis
- (c) Respiration
- (d) None of these

▼ [Answer](#)

Answer: (b)

Photosynthesis is the process by which green plants prepare their own food.

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Question 17.

Stomata are present on:

- (a) Stems
- (b) Leaves
- (c) Flowers
- (d) All of these

▼ [Answer](#)

Answer: (a)

Stomata are present on leaves.

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Question 18.

Which of the following is insectivorous plant ?

- (a) Mushroom
- (b) Fungi
- (c) Pitcher
- (d) Cuscuta

▼ [Answer](#)

Answer: (a)

Pitcher is insectivorous plant.

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Question 19.

Rhizobium is a:

- (a) Bacteria
- (b) Fungi
- (c) Algae
- (d) None of these

▼ [Answer](#)

Answer: (a)

Rhizobium is a bacteria.

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Question 20.

Two different organisms living together and both benefitted from each other, are called as:

- (a) Saprophytic
- (b) Parasitic
- (c) Heterotrophic
- (d) Symbiotic

▼ [Answer](#)

Answer: (d)

Two different organisms living together and both benefitted from each other, are called as Symbiotic.

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Question 21.

Green plants are known as:

- (a) Heterotrophs
- (b) Autotrophs
- (c) Saprotrophs
- (d) None of these

▼ [Answer](#)

Answer: (a)

Green plants are known as Autotrophs.

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Question 22.

Which of the following is not required for photosynthesis:

- (a) Sunlight
- (b) Water
- (c) Oxygen
- (d) Carbon dioxide

▼ [Answer](#)

Answer: (a)

Carbon dioxide is not required for photosynthesis.

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Question 23.

The components of food necessary for our body are:

- (a) Carbohydrates
- (b) Proteins
- (c) Vitamins
- (d) All of these

▼ [Answer](#)

Answer: (a)

The components of food necessary for our body are carbohydrates, proteins, vitamins.

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Question 24.

The gas produced during photosynthesis is:

- (a) Oxygen
- (b) Carbon dioxide
- (c) Nitrogen
- (d) None of these

▼ [Answer](#)

Answer: (a)

The gas produced during photosynthesis is oxygen.

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Question 25.

The solar energy is captured by which part of the plant ?

- (a) Stem
- (b) Leaves
- (c) Root
- (d) Flower

▼ [Answer](#)

Answer: (a)

The solar energy is captured by leaves of the plant.

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Question 26.

The pores on the lower surface of leaf are:

- (a) Stomata
- (b) Chlorophyll
- (c) Xylem
- (d) Phloem

▼ [Answer](#)

Answer: (a)

The pores on the lower surface of leaf are stomata.

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Question 27.

Which of the following is not an end product of photosynthesis ?

- (a) Carbon dioxide
- (b) Oxygen
- (c) Water vapour
- (d) Glucose

▼ [Answer](#)

Answer: (a)

Carbon dioxide is not an end product of photosynthesis.

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Question 28.

The external factor affecting the process of photosynthesis is:

- (a) Oxygen
- (b) Temperature
- (c) Chlorophyll
- (d) None of these

▼ [Answer](#)

Answer: (b)

The external factor affecting the process of photosynthesis is temperature.

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Question 29.

Which part of the plant gets carbon dioxide from the air for photosynthesis ?

- (a) Root hair
- (b) Leaf veins

- (c) Sepals
- (d) Stomata

▼ [Answer](#)

Answer: (a)

Stomata gets carbon dioxide from the air for photosynthesis.

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Question 30.

Amarbel is an example of:

- (a) Autotroph
- (b) Parasite
- (c) Saprotroph
- (d) Host

▼ [Answer](#)

Answer: (a)

Amarbel is an example of Parasite.

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[Match Column A with Column B:](#)

Question 1.

Column A	Column B
(a) Chlorophyll	(i) Bacteria
(b) Nitrogen	(ii) Heterotrophs
(c) Amarbel	(iii) Pitcher plant
(d) Animals	(iv) Leaf
(e) Insects	(v) Parasite

▼ [Answer](#)

Column A	Column B
(a) Chlorophyll	(iv) Leaf
(b) Nitrogen	(i) Bacteria
(c) Amarbel	(v) Parasite
(d) Animals	(ii) Heterotrophs
(e) Insects	(iii) Pitcher plant

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Question 2.

Column A	Column B
(a) Two different organisms live together and both are mutually benefitted	(i) water, sunlight, oxygen
(b) Food factory of plants	(ii) symbiosis
(c) Organisms living on other organisms and deriving food from	(iii) stomata



them	
(d) Tiny pores present in leaves	(iv) leaf
(e) Required plants to prepare food	(v) parasitic

▼ Answer

Column A	Column B
(a) Two different organisms live together and both are mutually benefitted	(ii) symbiosis
(b) Food factory of plants	(iv) leaf
(c) Organisms living on other organisms and deriving food from them	(v) parasitic
(d) Tiny pores present in leaves	(iii) stomata
(e) Required plants to prepare food	(i) water, sunlight, oxygen

Question 3.

Column A	Column B
(a) Saprotrophic nutrition	(i) Algae
(b) Insectivorous plant	(ii) Fungi
(c) Autotrophic nutrition	(iii) Algae and fungus
(d) Lichens	(iv) Pitcher

▼ Answer

Column A	Column B
(a) Saprotrophic nutrition	(ii) Fungi
(b) Insectivorous plant	(iv) Pitcher
(c) Autotrophic nutrition	(i) Algae
(d) Lichens	(iii) Algae and fungus

State whether the following statements are 'True' or 'False':

Question 1.

Tiny openings present in leaf surface is called stomata.

▼ Answer

True

Question 2.

Phbtosynthesis cannot take place in dark.

▼ [Answer](#)

True

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Question 3.

Bread mould is a saprophyte.

▼ [Answer](#)

True

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Question 4.

Parasites grow on the bodies of hosts.

▼ [Answer](#)

True

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Question 5.

Carbon dioxide is released during the process of photosynthesis.

▼ [Answer](#)

False

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Question 6.

The product of photosynthesis is carbohydrate.

▼ [Answer](#)

True

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Question 7.

Solar energy is converted into chemical energy during photosynthesis.

▼ [Answer](#)

True

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Question 8.

Sun is not the ultimate source of energy for all living organisms.

▼ [Answer](#)

False

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Question 9.

Plants which synthesise their food themselves are called saprotrophs.

▼ [Answer](#)

False

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Question 10.

Green plants have autotrophic nutrition.

▼ [Answer](#)

True

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Question 11.

Fungi prepare their own food by photosynthesis.

▼ [Answer](#)

False

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Question 12.

Solar energy is stored in the form of food in the leaves with the help of chlorophyll.

▼ [Answer](#)

True

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Question 13.

Transpiration is the process by which plants lose water in the form of water vapour.

▼ [Answer](#)

True

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Question 14.

Chloroplasts contain chlorophyll.

▼ [Answer](#)

True

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[Fill in the blanks:](#)

Question 1.

Starch gives a blue-black colour with a solution of .....

▼ [Answer](#)

iodine

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Question 2.

..... is the site of photosynthesis in plants.

▼ [Answer](#)

## Leaf

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Question 3.

Autotrophs are all ..... plants.

▼ [Answer](#)

green

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Question 4.

During photosynthesis, the chlorophyll traps the energy from .....

▼ [Answer](#)

sun

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Question 5.

..... is an example of symbiotic association.

▼ [Answer](#)

Lichen

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Question 6.

Green plants manufacture their own food, hence they are called .....

▼ [Answer](#)

autotrophs

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Question 7.

On testing with iodine, starch turns, ..... in colour.

▼ [Answer](#)

blue

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Question 8.

Lichen is the mutual combination of ..... and .....

▼ [Answer](#)

algae and fungus

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Question 9.

..... is an organelle present in the leaves that contain chlorophyll.

▼ [Answer](#)

Chloroplast

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Question 10.

Saprophytic plants lack .....

▼ [Answer](#)

chlorophyll

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Question 11.

..... is released during photosynthesis.

▼ [Answer](#)

Oxygen

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Question 12.

A fungus we like to eat is .....

▼ [Answer](#)

mushroom

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Question 13.

Mode of nutrition in algae is .....

▼ [Answer](#)

autotrophic

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Question 14.

An example of parasite is .....

▼ [Answer](#)

cuscuta

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Question 15.

Stomata are surrounded by ..... cells.

▼ [Answer](#)

guard

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Question 16.

Green plants are called ..... since they synthesize their own food.

▼ [Answer](#)

autotrophs

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Question 17.

The food synthesized by the plants is stored as .....

▼ [Answer](#)

carbohydrates

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Question 18.

In photosynthesis, solar energy is captured by the pigment called .....

▼ [Answer](#)

chlorophyll

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Question 19.

During photosynthesis, plants take in ..... and release .....

▼ [Answer](#)

carbon dioxide, oxygen.