

#### 1. Nutrition in Plants

### Question 1.

The plant which traps and feeds on insects is:

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

#### **▼** Answer

Answer: (a)

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

#### Question 2.

Plants take carbon dioxide from the atmosphere mainly through their:

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

#### **▼** Answer

Answer: (a)

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

#### Question 3.

The internal factor affecting the process of photosynthesis is:

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

# **▼** Answer

Answer: (a)

Chlorophyll is the internal factor affecting the process of photosynthesis.

#### 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.

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.

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.

# 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.

# 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.

### 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.

#### 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.

#### 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.

#### 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.

#### 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.

#### 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.

# 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.

# 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: (a)

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

Question 17.

Stomata are present on:

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

# **▼** Answer

Answer: (a)

Stomata are present on leaves.

Question 18.

Which of the following is insectivorous plant?

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

#### **▼** Answer

Answer: (a)

Pitcher is insectivorous plant.

Question 19.

Rhizobium is a:

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

#### **▼** Answer

Answer: (a)

Rhizobium is a bacteria.

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: (a)

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

#### 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.

#### 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.

#### 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.

# 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.

# Question 25.

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

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

Answer: (a)

The solar energy is captured by leaves of the plant.

#### 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.

#### 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.

#### Ouestion 28.

The external factor affecting the process of photosynthesis is:

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

#### **▼** Answer

Answer: (a)

The external factor affecting the process of photosynthesis is temperature.

### 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: (a)

Stomata gets carbon dioxide from the air for photosynthesis.

Question 30.

Amarbel is an example of:

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

# **▼** Answer

Answer: (a)

Amarbel is an example of Parasite.

# 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

# 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

Column A	Column B
(a) Two different organisms live together and both are mutually benefitted	(ii) symbiosis
	(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 toog	(i) water, sunlight, oxygen

# Question 3.

Column A	Column B
(a) Saprotrophic nutrition	(i) Algae
(b) Insectivorous plant	(ii) Fungi
	(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
HIAI LICHANS	(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
Question 3. Bread moujd is a' saprophyte.
▼ Answer
True
Question 4. Parasites grow on the bodies of hosts.
▼ Answer
True
Question 5. Carbon dioxide is released during the process of photosynthesis.
▼ Answer
False
Question 6. The product of photosynthesis is carbohydrate.
▼ Answer
True
Question 7. Solar energy is converted into chemical energy during photosynthesis.
▼ Answer
True
Question 8. Sun in not the ultimate source of energy for all living organisms.
▼ Answer
False
Question 9. Plants which synthesise their food themselves are called saprotrophs.

False
Question 10. Green plants have autotrophic nutrition.
▼ Answer
True
Question 11. Fungi prepare their own food by photosynthesis.
▼ Answer
False
Question 12. Solar energy is stored in the form of food in the leaves with the help of chlorophyll.
▼ Answer
True
Question 13. Transpiration is the process by which plants lose water in the form of water vapour.
▼ Answer
True
Question 14. Chloroplasts contain chlorophyll.
▼ Answer
True
Fill in the blanks:
Question 1. Starch gives a blue-black colour with a solution of
▼ Answer
iodine
Question 2 is the site of photosynthesis in plants.
▼ Answer

Leaf
Question 3. Autotrophs are all plants.
▼ Answer
green
Question 4. During photosynthesis, the chlorophyll traps the energy from
▼ Answer
sun
Question 5 is an example of symbiotic association.
▼ Answer
Lichen
Question 6. Green plants manufacture their own food, hence they are called
▼ Answer
autotrophs
Question 7. On testing with iodine, starch turns, in colour.
▼ Answer
blue
Question 8. Lichen is the mutual combination of and
▼ Answer
algae and fungus
Question 9 is an organelle present in the leaves that contain chlorophyll.
▼ Answer

Chloroplast

Question 10. Saprophytic plants lack
▼ Answer
chlorophyll
Question 11is released during photosynthesis.
▼ Answer
Oxygen
Question 12. A fungus we like to eat is
▼ Answer
mushroom
Question 13.  Mode of nutrition in algae is
▼ Answer
autotrophic
Question 14. An example of parasite is
▼ Answer
cuscuta
Question 15. Stomata are surrounded by cells.
▼ Answer
guard
Question 16. Green plants are called since they synthesize their own food.
▼ Answer
autotrophs

Question 17. The food synthesized by the plants is stored as
▼ Answer
carbohydrates
Question 18. In photosynthesis, solar energy is captured by the pigment called
▼ Answer
chlorophyll
Question 19. During photosynthesis, plants take in and release
▼ Answer
carbon dioxide, oxygen.