

CLASS VII – SCIENCE – CHAPTER 01

NUTRITION IN PLANTS

Name:

Date:

01. Plants prepare their food by the process of
(a). Respiration (b). Photosynthesis (c). Transpiration (d). All of these.
02. The organism that can prepare their own food are called
(a). Heterotrophs (b). Consumers (c). Decomposers (d). Autotrophs
03. Which of the following is not required by plant for food synthesis?
(a). Water (b). Oxygen (c). Carbon dioxide (d). Chlorophyll
04. Which one is an insectivorous plant?
(a). Banyan tree (b). Cuscuta (c). Pitcher plant (d). Neem plant
05. In the process of photosynthesis, the gas given out by green leaves is
(a). Oxygen (b). Carbon dioxide (c). Nitrogen (d). Ozone
06. Which of the following is an insectivorous plant?
(a). Cuscuta (b). Croton (c). Nepenthes (d). Lichen
07. Plant eating animals are called
(a). Omnivorous (b). Carnivorous (c). Herbivorous (d). Insectivorous
08. Green pigments present in the leaves are called
(a). Leucoplasts (b). Chloroplasts (c). Chromoplast (d). Amphiplast
09. Which one is saprophytic organism?
(a). Neem plant (b). Mushroom (c). Cuscuta (d). Pitcher plant.
10. Insectivorous plants are found mostly in areas which are
(a). Dry and sandy (b). Wet and marshy (c). Nitrogen deficient (d). Nitrogen rich
11. Exchange of gases in leaves takes place through
(a). Stomata (b). Lenticels (c). Epidermis (d). Guard cells
12. The green colour in plants is due to a pigment called
(a). Xanthophyll (b). Chlorophyll (c). Protein (d). Haemoglobin
13. The balance between CO₂ and O₂ is maintained by
(a). Respiration (b). Transpiration (c). Photosynthesis (d). Translocation
14. Which of the following is an omnivorous organism?
(a). Horse (b). Cow (c). Buffalo (d). Dog
15. To test the presence of starch by iodine, the green leaf is first boiled in alcohol to
(a). Dissolve chlorophyll (b). Remove starch
(c). Make the leaf soft (d). Make the leaf transparent

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Q01. Fill in the blanks

- (a). Green plants are called _____, since they synthesize their own food.
- (b). Oxygen is released by plants during _____.
- (c). _____ live on dead and decaying animals
- (d). _____ is the green coloured pigments present in leaves.
- (e). The food synthesized by the plants is stored as _____.
- (f). During photosynthesis, solar energy is trapped by the pigment called _____.
- (g). _____ is the ultimate source of energy.
- (h). Gas released during photosynthesis is _____
- (i). Plant eating animals are called _____
- (j). Minute pores on leaf surface for exchange of gases are known as _____.

Q02. Match the following.

Column A

- (a). Autotrophs
- (b). Heterotrophs
- (c). Carnivores
- (d). Saprophytes
- (e). Parasite

Column A

- (a). Exchange of gases
- (b). Nitrogen
- (c). Autotrophs
- (d). Omnivores
- (e). Photosynthesis

Column A

- (a). Herbivores
- (b). Carnivores
- (c). Omnivores
- (d). Saprophytes
- (e). Parasite

Column A

- (a). Lichens
- (b). Pitcher plant
- (c). Amarbel
- (d). Dear
- (e). Stomata

Column B

- i. Tiger
- ii. Mushroom
- iii. Cuscuta
- iv. Green plants
- v. Animals

Column B

- i. Rhizobium
- ii. Chlorophyll
- iii. Stomata
- iv. Green plants
- v. Bear

Column B

- i. Amarbel
- ii. Yeast
- iii. Cow
- iv. Lion
- v. Cat

Column B

- i. Herbivores
- ii. Parasitic
- iii. Insectivores
- iv. Exchange of gases
- v. Symbiotic association

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Q03. Name the following.

- (a). A parasitic plant which is devoid of leaves, having yellow, slender tubular stem.
- (b). A solution used to test the presence of carbohydrates.
- (c). A plant that has both autotrophic and heterotrophic nutrition.
- (d). By which organism obtain energy from the digested food.

Q04. Write T for true and F for false statements.

- (a). Green plants prepare their food hence they are Autotrophs.
- (b). Carbon dioxide gas is released in the process of photosynthesis.
- (c). Carnivores are flesh eating animals.
- (d). Minute pores on the leaf surface are called stomata.
- (e). Cuscuta is an insectivorous plant.
- (f). Plants obtain nitrogen from soil.
- (g). Human being is an omnivorous organism.
- (h). Plant intake carbon dioxide during respiration.
- (i). Solar energy is captured by leaves.
- (j). Mushroom is a saprophytic organism.

Q05. What is the mode of nutrition in plants?

Q06. What is symbiotic relationship? How it benefits the organisms?

Q07. Why green leaf is boiled in alcohol before testing it for starch.

Q08. What is photosynthesis?

Q09. Distinguished between parasite and saprophytes.

Q10. What are insectivorous plants? Give two examples.

Q11. What are Heterotrophs? Give two examples.

Q12. What are nutrients? Name main nutrients.

Q13. Why is sun said to be ultimate source of energy?

Q14. What is parasitic nutrition? Give two examples.

Q15. Name the raw materials required for photosynthesis.

Q16. Why do organisms need to take food?

Q17. Classify the following organism as herbivores, carnivores and omnivores.

Dog, Cat, Human beings, Elephant, Crow, Cow, horse, deer, Tiger, Lion.