



CLASS NOTES-ANSWERS

I. Write true (T) or false (F).

- 1) Photosynthesis occurs in the roots of a plant F
- 2) Plants give out oxygen gas during photosynthesis. T
- 3) Mistletoe is a total parasite. F
- 4) Plants need water, air, and sunlight to prepare food. F
- 5) Chlorophyll is also found in the roots of plants. F
- 6) Animals depend on plants for food. T

II. Tick the correct options.

1) The green pigment that is essential for making food in plants is

a) Iodine

b) Chlorophyll

c) Starch

d) Sugar

2) Stomata are used for

a) The exchange of gases

b) Preparing chlorophyll

c) Absorbing water & minerals from the soil

d) Trapping insects

3) The food prepared by the leaf is in the form of

a) Glucose

b) Oil

c) Fat

d) Protein

4) In the presence of starch, the light brown colour of the iodine solution changes to

a) Reddish orange

b) Bluish black

c) Yellowish green

d) Reddish brown





5) Chlorophyll is masked by red and yellow pigments in

a) Cactus

c) Croton

b) Banana

d) Neem

III. Rewrite the following sentences correctly.

1) The lamina attaches the leaf to the stem.

Answer: The stalk attaches the leaf to the stem.

2) Wheat does not contain starch.

Answer: Wheat contains starch.

3) Plants use up all the food they make.

Answer: Plants use up some of the food they make.

4) Insectivorous plants grow in soil poor in oxygen.

Answer: Insectivorous plants grow in soil poor in minerals.

5) Insects, such as houseflies and cockroaches, help plants to produce fruits with healthy seeds.

Answer: Insects such as honeybees, help plants to produce fruits with healthy seeds.

IV. Rewrite the following sentences correctly.

1) From where do plants obtain water and minerals?

Answer: Plants obtain water and minerals from the soil through roots.

2) Why do plants have stomata?

Answer: Plants have stomata for the exchange of gases.

3) What happens to the food made by plants?

Answer: The food (glucose) prepared by the plant contains energy which helps the plant to grow and repair the worn-out cells. The extra



food is stored in the form of starch in different parts of the plant.

- 4) Differentiate between a total parasite and a partial parasite.

Answer: A total parasite is a plant which lacks chlorophyll and cannot prepare its own food. It grows on other plants such as carrots and tomatoes. It depends on them for food and water. A partial parasite has chlorophyll and can make its own food. It grows on mango and chiku trees. It depends on other plants for water and certain nutrients.

- 5) How are plants and animals interdependent?

Answer: Animals help plants in seed dispersal. Animals breathe out carbon dioxide gas. Plants use this carbon dioxide gas to prepare food and they release oxygen gas. Animals breathe in this oxygen gas. They also depend on plants for food. Thus, plants and animals are interdependent.



V. Higher-order Thinking Skills.

Think and Answer

- 1) A grasshopper is green in colour. It gets sunlight, air, and water. It still cannot prepare its food. Why?

Answer: A grasshopper cannot prepare its own food because it does not contain chlorophyll pigment.

- 2) What would happen if human beings could prepare food through photosynthesis?

Answer: Human beings would produce their own food and oxygen gas during photosynthesis. Hence, they would no longer be dependent on plants for their survival.