

Date:

Class-IV

Subject - Science

Ch-2

Plants: The food producers

(A) Answer the following question:

(1) Why are leaves called the food factories of a plant?

Ans) Leaves are called the food factories of a plant because only green leaves which contain chlorophyll can make food for the plant.

(2) What is photosynthesis? What does a plant need for photosynthesis?

Ans) Photosynthesis → The process of food making in the green leaves of a plant is known as photosynthesis.
Plants need water, Carbon dioxide and sunlight.

(3) What do Stomata do for the plant?

Ans) Stomata help in exchange of gases and water vapour between the leaf and the surrounding air.

(4) For what does a plant use food prepared in leaves?

Date:

Ans → plant use food for various purpose.
(*) To grow
(*) To get energy through respiration.
(*) To repair any part which get damaged.
(*) To store extra food.

(5) Explain the function of xylem and phloem in the plant.

Ans → Xylem → It is the tubes that carry water from the roots to the leaves.

Phloem → This tube help carry the food made in the leaves to all other parts of the plant

(6) What are fungi?

Ans → Fungi are non-green plant it can not make their own food. They get their food from dead and decaying plants and animals.
Ex - Mould, Mushrooms

(8) Fill in the blanks.

(1) Green plant are the primary source of food.

(2) Plants breathe through tiny holes called Stomata.

(3) plants get water from roots

Date:

(4) Oxygen is released in the atmosphere during photosynthesis.

(5) Plants store food in the form of starch

(6) Croton and coleus have coloured leaves.

(C) Mark a (✓) for true and a (x) for false:

(1) Plants are the most important part of our environment

(2) All plants can make their own food.

(3) Carbon dioxide is released during photosynthesis.

(4) Photosynthesis can take place in dark room.

(5) It is not necessary to remove chlorophyll from leaf for the test of starch.

(D) Match the following

Column A

Column B

- | | |
|----------------|------------------------------------------------------|
| 1. Stomata | (a) Carries water (5) |
| 2. Chlorophyll | (b) Food factory of the plant (3) |
| 3. Leaf | (c) Stored food in plant (4) |
| 4. Starch | (d) Tiny holes present on the lower side of leaf (1) |
| 5. Xylem | (e) Green substance that traps sunlight (2) |

(E) Tick (✓) the correct answer:

(1) Leaves are green due to presence of:

(a) oxygen (b) chlorophyll (c) Food

Date:

(2) Glucose is a kind of:

(a) Sugar (b) protein (c) Fat

(3) Which gas is absorbed in photosynthesis?

(a) oxygen (b) Carbon dioxide
(c) both of these

(4) A leaf remains attached to the stem or branch by:

(a) lamina (b) petiole (c) apex

(5) Which Solution is used for the test of starch?

(a) Iodine solution (b) water solution
(c) any of these

Fact file

(1) Our atmosphere contains very little carbon dioxide. plants get most of it from the animals and humans who breathe it out.

(2) Starch gives blue-black colour with iodine solution.

Date:

Vocabulary

- (1) Chlorophyll - Green pigment in plant
- (2) xylem - tube that carry water
- (3) Phloem - tube that carry food
- (4) Starch - food stored in plants
- (5) photosynthesis - process of making food in plants
- (6) Bleaching - making something lose its colour.
- (7) Stomata - Small opening present on the lower surface of a leaf
- (8) Heterotroph - an organism that obtain its food from other organism.