

Date: _____ Class: 4

Div: A / B / C

Roll No: _____ Sub: Science

Name: _____

Chapter 1

Plants-The Source of Food

Textbook Answers

Short Question & Answer:

A. What is the role of chlorophyll in photosynthesis?

Ans: Chlorophyll is a green coloured pigment that helps in trapping sunlight for photosynthesis.

B. Give some examples of food storing parts in plants.

Ans: Food is converted into starch and is stored in different parts of a plant like:

Radish & carrot : roots

Cabbage & Mint : Leaves

Potato & Sugarcane : Stem

Mango & Chickoo : Fruit

C. What is the function of roots in a plant?

Ans: Roots fix the plant firmly to the ground and also absorb water & minerals for them.

D. Name three things required by plants to make food. Where do they get these things from?

Ans: The three things required by plants to make food are:

1. Sunlight – from sun
2. Carbon dioxide- from air
3. Water- from soil through roots.

Long Question & Answer:

A. What is iodine test? Explain with example.

Ans: Iodine test is performed to know whether starch is present in given specimen of a leaf.

1. First, the leaf is bleached in boiling water and then in alcohol
2. Then few drops of iodine are added to it
3. The leaves turn blue black in color because of starch present in it.

B. Describe the structure of a leaf with the help of a labelled diagram.

- Ans:
1. Leaves are mostly broad and flat green structure of a plant
 2. The flat green part is called leaf blade
 3. In the middle of the leaf blade is the main vein and several side veins
 4. These veins carry water and minerals to all the parts of a leaf
 5. Leaves also have tiny pores called stomata which help in exchange of gases.
 6. Chlorophyll in leaf traps the sunlight.

HOTS

How does cutting of trees affect our breathing?

- Ans:
1. Plants take in carbon dioxide and give out oxygen during photosynthesis
 2. Cutting down of trees will result in reduction of process of photosynthesis