



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

SCIENCE -6 (CH-07- GETTING TO KNOW PLANTS)

Question 1:

Correct the following statements and rewrite them in your notebook.

- (a) Stem absorbs water and minerals from the soil.
- (b) Leaves hold the plant upright.
- (c) Roots conduct water to the leaves.
- (d) The number of petals and sepals in a flower is always equal.
- (e) If the sepals of a flower are joined together, then its petals are also joined together.
- (f) If the petals of a flower are joined together, then the pistil is joined to the petal.

Answer 1:

- (a) Root absorbs water and minerals from the soil.
- (b) Stem holds the plant upright.
- (c) Stem conducts water to the leaves.
- (d) The number of petals and sepals in a flower may be different in different plants.
- (e) If the sepals of a flower are joined together, then its petals may or may not be joined together.
- (f) If the petals of a flower are joined together, then the stamen may or may not be joined to the petal.

Question 2:

Draw (a) a leaf, (b) a taproot, and (c) a flower that you have studied for Table 7.3.

Answer 2:

(a)



Leaf of a rose plant

(b)



Taproot of a rose plant

(c)



Flower of a rose plant

Question 3:

Can you find a plant in your house or in your neighbourhood which has a long but a weak stem?
Write its name. In which category would you classify it?

Answer 3:

The money plant has a long and weak stem. It comes under the category of climbers. Climbers are plants that readily take support on neighbouring structures as they have a weak stem.

Question 4:

What is the function of a stem?

Answer 4:

The main function of a stem in plants is that it helps in the conduction of water and minerals from the roots to the leaves and other parts of plants. It also provides support to branches, leaves, flowers, fruits, and buds of plants.

Question 5:

Which of the following leaves have reticulate venation?

Wheat, *tulsi*, maize, grass, coriander (*dhania*), China rose

Answer 5:

The leaves of *tulsi*, coriander, and China rose have reticulate venation, whereas maize, grass, and wheat have parallel venation.

In leaves with reticulate venation, the veins are arranged in a net-like pattern. In parallel venation, the veins are arranged parallel to one another.



Leaves with reticulate and parallel venation

Question 6:

If a plant has fibrous roots, what type of venation do its leaves have?

Answer 6:

Plants with fibrous roots have parallel venation in their leaves. For example, grass, wheat, maize, etc. have fibrous roots with parallel venation.



Fibrous roots with parallel venation

Fibrous roots have thin and moderately growing branches arising from the stem. Parallel venation, on the other hand, has leaves in which the veins are arranged parallel to each other.

Question 7:

If a plant has leaves with reticulate venation, then what kind of roots does it have?

Answer 7:

Plants with reticulate venation in their leaves are likely to have tap roots. For example, a carrot or a rose plant has leaves with reticulate venation and its roots are called tap roots.



Taproots and reticulate venation

In tap roots, there is one main root known as the 'tap root' that grows straight down from the stem. It also has smaller roots known as 'lateral roots'. In leaves with reticulate venation, the veins are arranged in a net-like pattern.

Question 8:

Is it possible for you to find out whether a plant has taproot or fibrous roots by looking at the impression of its leaf on a sheet of paper?

Answer 8:

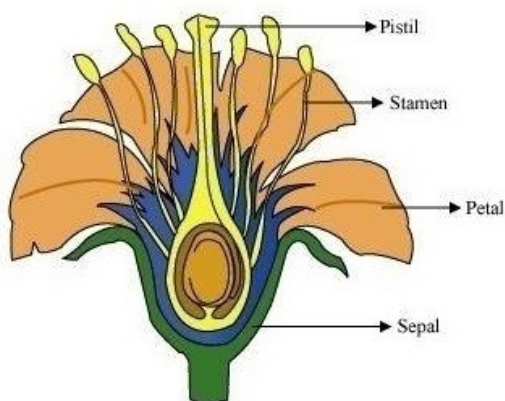
Yes, we can recognize the roots of a plant by looking at the leaves. You can look for the type of roots of the plant and identify the type of leaf. If the plant has fibrous roots, then its leaves have parallel venation, and if the plant has tap roots, then its leaves have reticulate venation.

Question 9:

What are the parts of a flower.

Answer 9:

A flower consists of sepals, petals, stamens, and pistils. A stamen has two parts called the anther and the filament. A pistil has three parts called the stigma, style, and ovary.



A flower showing all its parts

Question 10:

From the following plants, which of them have flowers?

Grass, maize, wheat, chilli, tomato, *tulsi*, *peepal*, *shisham*, banyan, mango, *jamun*, guava, pomegranate, papaya, banana, lemon, sugarcane, potato, groundnut

Answer 10:

The given examples are flowering plants. But, in some plants such as *tulsi*, *pipal*, sugarcane, etc. the flowers are not visible. They are so small that they cannot be seen with naked eyes.

Question 11:

Name that part of plant which produces food. Name this process.

Answer 11:

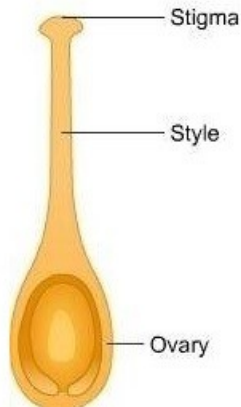
The part of plants which prepares food is the leaf. Leaves of a plant prepare food in the presence of sunlight. The process of making food by utilizing water and carbon dioxide in the presence of sunlight is called photosynthesis.

Question 12:

In which part of a flower, you will find the ovary?

Answer 12:

Pistil is the part of the flower that contains the ovary.



The structure of a pistil showing all its parts

Question 13:

Name two plants in which one has joined sepals and the other has separate sepals.

Answer 13:

Flowers with joined sepals are Periwinkle (*Sadabahar*) and *Hibiscus* (China rose).

Flowers with separated sepals are Rose and Magnolia.