

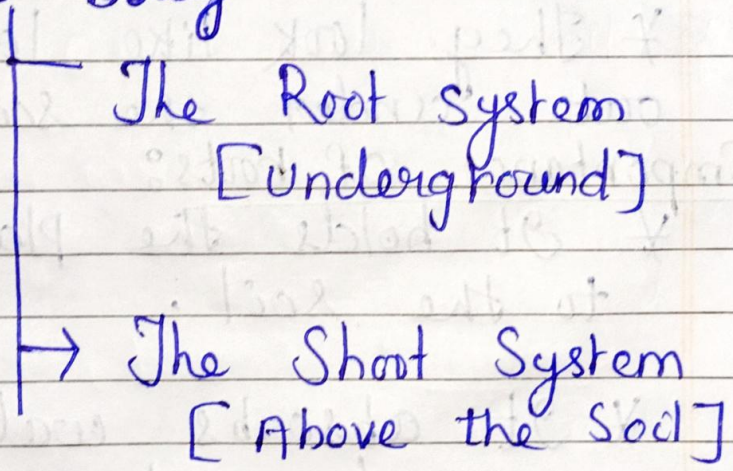
23/07/21  
Friday

The typical plant body consist of 2 systems

or

We can say, Plant body can be divided into two parts

Plant Body



The Root System:

The part of the plant which grow below the soil is called root system.

The Shoot System:

\* The part of the plant which grow above the soil is called shoot system.

\* The shoot system includes stem, leaf, flower, Bud.

### The Root System:

\* They grow deep inside the soil.

\* They look like long ropes spread out under the soil!

### Importance of roots:

\* It holds the plant tightly (firmly) to the soil.

\* It absorbs water and nutrients or minerals and send them to different parts of the plant.

\* It stores food for the plant (Storage root)

\* It prevents soil erosion.

### Root hairs:

hair like structures. They are tiny

Storage roots: plants which store

food in their roots are called storage roots.

example: Carrot, radish, beetroot  
turnip

\* Yam and tapioca → eaten during famine

Soil erosion: Heavy rain and strong wind wash or blow away the topsoil, this is called soil erosion.

\* The roots of the cactus plant spread deep into the soil in search of water.

Types of Root System:

→ Tap Root

→ Fibrous Root

## Tap Root :

\* It is a thick, single root that grows down straight.

\* It doesn't have any branch root.

\* It is the main root of the plant.

\* The small hair like roots grow from the sides of taproot.

Example : Carrot, Beetroot, Pea Bean plant.

## Fibrous Root :

\* There is no main root.

\* It has many small roots that branches out from the base of the stem.

Example : Grass, wheat, Rice plants