

## PLANT STRUCTURE AND GROWTH

There are about 250,000 species of flowering plants or angiosperms.

This is the dominant group in terrestrial habitats. Our survival depends on them.

- Food, medicine, lumber, etc.

The name angiosperm is derived from the Greek *angeion*, means vessel, and *sperma* means seed.

The form of plants is controlled both by the environment and by their genetic makeup.

Plants show **plasticity**, the ability to alter or mold itself in response to local environmental conditions.

Plants also have a **morphology**, external form or external anatomy, controlled by their genotype.

### THE PLANT BODY

A plant's structure reflects its interaction with the environment.

Plants have become adapted through natural selection to specific problems posed by terrestrial environments.

Plants have tissues and organs.

Plants have two organ systems: **root system** and **shoot system**.

Plants have three basic organs: **roots, stems and leaves**.

### ROOT SYSTEMS

**Taproot system.**

- Produced by gymnosperms and dicots.
- It consists of one large vertical root that grows downward and is called then a **taproot**.
- It produces lateral roots.
- This system generally penetrates deep into the soil.

**Fibrous root system.**

- It is found in monocots.
- **Adventitious** roots develop from the stem and/or leaves.
- Each root in turn develops its own lateral roots.
- This system is usually shallow.

The tip of the roots in both monocots and dicots is covered with **root hairs**.

Root hairs are extension of the epidermal cells and increase the absorbing area of the root.

# Plant Structure Study Guide

**Pandey B.P.**



## **Plant Structure Study Guide:**

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