

3

TISSUES : PLANT AND ANIMAL TISSUES

Syllabus : Tissues : Types of plant and animal tissues.

A brief understanding of their location, basic structure and functions, with examples. A brief understanding of their role in different physiological processes in plants and animals.

A single cell working on its own would achieve very little inside an animal or a plant. So, many many *similar cells* lying side by side work together as a team to perform the same function. Such groups are called *tissues*. We will describe here only the more common plant and animal tissues.

3.1 TISSUES — “The Teams of Workers”

A tissue is a group of similar cells performing a specific function.

Most plants and animals possess a tissue system. The human body, *for example*, has an epithelial tissue covering the skin, the muscular tissue made up of muscle cells which by contraction bring about movements. In a plant, the conducting tissue conducts water upwards from the soil to the aerial parts and food prepared from the leaves to the lower parts.

Relationship between tissue, organ, organ system and organism. Several tissues together contributing to some specific function inside the body, constitute an *organ* (such as tongue having epithelial cells, nerve cells, muscle cells, etc.). Many organs acting together to perform a specific life process constitute an *organ system* (such as the digestive system). Organ systems together constitute the organism (*e.g.* the root system and the shoot system constitute the plant, an organism).

3.2 PLANT TISSUES

Plant tissues are basically of two types—

- A. Meristematic tissue (cells can multiply to produce new cells) (Gk. *meristos*; divided).
- B. Permanent tissue (non-dividing cells and specialised).

A. Meristematic tissue or Meristem

- Found at all growing points of a plant, such as the tips of roots, stems and branches (Fig. 3.1).

- Also present between the bark and the wood of trees where it leads to growth in the diameter of the stem.

Chief characteristics of meristematic tissue :

- (1) Cells are small.
- (2) Cells are usually cubical.
- (3) Cell wall is thin.
- (4) Nuclei are large.
- (5) Vacuoles almost absent.
- (6) Cells tightly packed with almost no intercellular spaces.
- (7) The cells actively divide adding new cells to the plant.
- (8) New cells thus produced are transformed into mature permanent tissues.

The meristematic tissue can be classified into two categories : *Apical meristem* and *Cambium* or *lateral meristem*.

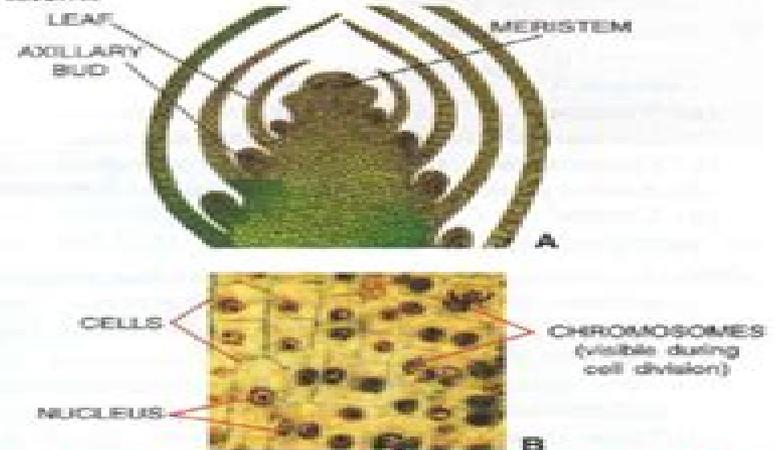


Fig. 3.1 A- Longitudinal section of stem tip, together with the differentiating leaves and the axillary buds. B-Meristematic cells undergoing cell division in the root tip of an onion.

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