

# ORGANISATION OF PLANT TISSUES AND GROWTH

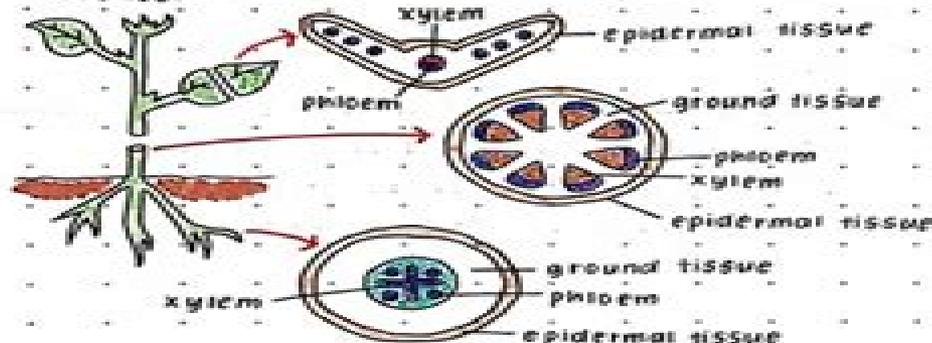
## 1.1 Organisation of Plant Tissues

a plant consist of two types of tissues :

- a) meristematic tissues
  - apical meristematic
  - lateral meristematic
- b) permanent tissues
  - epidermal tissues
  - ground tissues      parenchyma, collenchyma, sclerenchyma
  - vascular tissues      xylem, phloem

### Permanent Tissues

- matured tissues which have experienced or are experiencing differentiation
- there are three types of permanent tissues, epidermal tissues, ground tissues and vascular tissues.



### Types of Permanent Tissues and Their Functions

#### 1. Epidermal tissues

layer the outermost surface of stems, leaves and roots of young plants.

- epidermal cell walls exposed to the air has waxy and waterproof layer called cuticle.
- ↳ cuticle reduces water loss through evaporation
- ↳ cuticle protects leaf from mechanical injuries and water loss.
- modified epidermal cells according to functions:
  - guard cells: controls opening of stoma
  - root hair cells: increase surface area of root for water & mineral salts absorption

#### 2. parenchyma tissues

simplest living cells & don't undergo differentiation.

- have thinnest cell wall
- always in turgid state providing support and maintaining shape of herbaceous plants.
- involved in:
  - photosynthesis
  - storage of starch and sugar
  - involved in gaseous exchange
  - repair and regeneration of plant tissue
  - vascular systems

# Biology Form 5 Chapter 1

**Robert R. Redfield**



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