

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

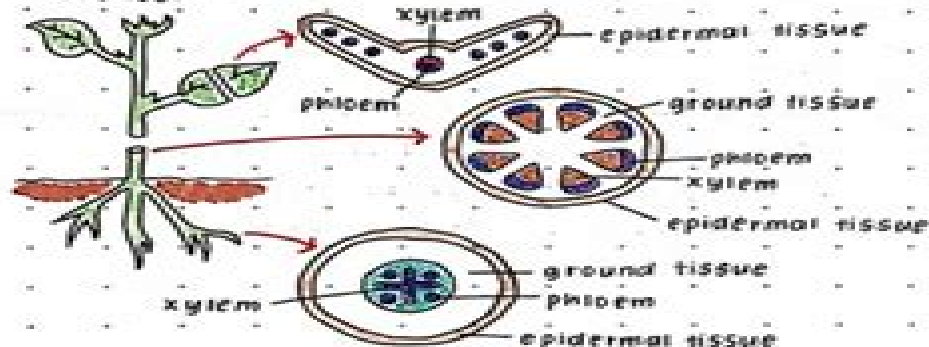
vascular tissues

parenchyma, collenchyma, sclerenchyma

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

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