

# 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

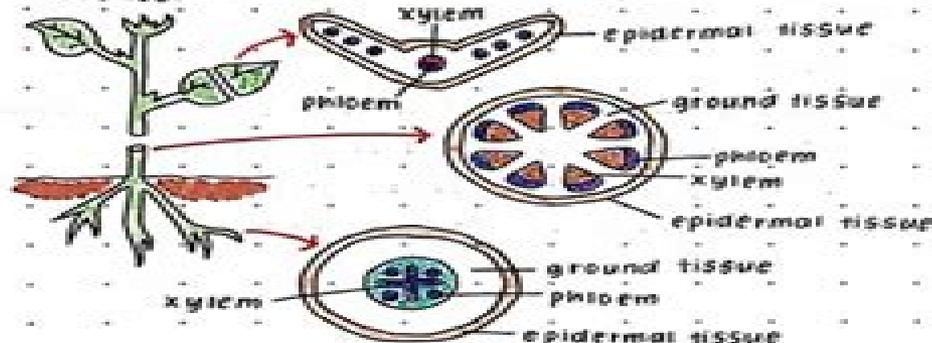
vascular tissues

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

# Mind Map Biology Form 5 Chapter 1

**Gilbert D. Brum, Larry McKane, Gerald  
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*Human Biology and Health*, 1997

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*Biological Science Biological Sciences Curriculum Study*, 1996

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**Parade of Life**, 1993

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*Holt Biology* Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008

**A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students** Kathy R. Pollock, 1998

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