



Monday, 20 January 2025

### ➤ **Complex Permanent Tissue**

- ❖ **Xylem:** Conducts water and minerals from roots to other parts. Components: tracheids, vessels, fibers, and xylem parenchyma.
- ❖ **Phloem:** Transports food from leaves to other parts. Components: sieve tubes, companion cells, phloem fibers, and phloem parenchyma.

### ➤ **Protective Tissue**

- ❖ Includes **epidermis** and **cork**.
- ❖ Epidermis is the outer layer, often covered with a waxy cuticle to reduce water loss.
- ❖ Cork forms the outer protective layer in older stems and roots.

### ➤ **Specialized Tissue**

- ❖ **Secretory Tissue:** Produces substances like resins, latex, or oils.

### ➤ **Function of Tissues**

- ❖ Support growth, transport nutrients, store food, and provide structural integrity.

### ➤ **Adaptations**

- ❖ Plant tissues adapt to environmental conditions, such as aerenchyma in aquatic plants for buoyancy or sclerenchyma for rigidity in terrestrial plants.