

## II. CONNECTIVE TISSUE

Functions (jobs):

- Wraps around and cushions and protects organs
- Stores nutrients
- Internal support for organs
- As tendon and ligaments protects joints and attached muscles to bone and each other
- Runs through organ capsules and in deep layers of skin giving strength

The 3 Elements of Connective Tissue:

- Ground substance – gel around cells and fibers
- Fibers – provide strength, elasticity and support
- Cells

### IIa. SPECIAL CONNECTIVE TISSUES

#### 1) Cartilage

Functions (jobs):

- provides strength with flexibility while resisting wear, i.e. epiglottis, external ear, larynx
- cushions and shock absorbs where bones meet, i.e. intervertebral discs, joint capsules

#### 2) Bone

Functions (jobs):

- provides framework and strength for body
- allows movement
- stores calcium
- contains blood-forming cells

#### 3) Blood

Functions (jobs):

- transports oxygen, carbon dioxide, and nutrients around the body
- immune response

**Dense  
Connective Tissue**



**Adipose Tissue  
(Connective Tissue)**



**Areolar Tissue  
(Connective Tissue)**



**Compact Bone  
(Connective Tissue)**



**Blood  
(Connective Tissue)**

