Chapter 4 Note Packet #2: Connective Tissues

General Connective tissue characteristics:

- Found in _______ parts of the body
- ______________________________________________________ with other tissues
- Well vascularized (blood) except for ___________________________________________
- Containing more _____________________________ than cells
- Extracellular matrix: consists of ______________________ and ground substance

- 3 types of fibers:

- Ground substance:

Different Types of Mature CT:

- Loose CT:

- Dense CT:

- Cartilage: extracellular fluid made by ______________ and maintained by ______________

- Bone: extracellular matrix made by ______________ and maintained by ______________

- Blood: ___________ : _________________________ is the matrix and contains blood cells (red, white and platelets)

Connective Tissue Fibers:

- **Collagen Fibers**: Strong collagenous fibers

- **Elastic Fibers**: Elastic

- **Reticular fibers**: thin collagenous fibers
**Areolar (or Loose):**

- Identification:
- Where Located:
- Functions:

**Adipose:**

- Identification:
- Where Located:
- Functions:

**Dense Regular:**

- Identification:
- Where Located:
- Functions:

**Dense Irregular:**

- Identification:
- Where Located:
- Functions:
Reticular Connective Tissue:

- Identification:

- Where Located:

- Functions:

Cartilage:

- Connective tissue consisting of a ________________ embedded in a rubbery ground substance.
- The matrix is produced by cells called ________________, which become embedded in the matrix as chondrocytes (mature cell)
- Chondrocytes found in spaces in matrix called ________________
- No nerves or blood vessels

Hyaline Cartilage:

- Identification:

- Where Located:

- Functions:

Elastic cartilage:

- Identification:

- Where Located:

- Functions:
**Fibrocartilage:**
- Identification:
- Where Located:
- Functions:

**Compact Bone Tissue:**
- Identification:
- Where Located:
- Functions:

**Spongy Bone:**
- Identification:
- Where Located:
- Functions:
Blood:

- Function: ________________to all body tissues and transports waste from tissues to excretory organs
- Composed of ________________
- Plasma is the extracellular matrix and its fibers are produced and observed only during blood clotting

Red Blood Cells (__________________________)
- Carry
- Lack
- Formed in

White Blood Cells (__________________________)
- Fight
- ___________ different types
- Made in
- Much larger than RBC’s

Platelets (__________________________)
- Function
- Not complete cells, they are ______________of cells found in bone marrow