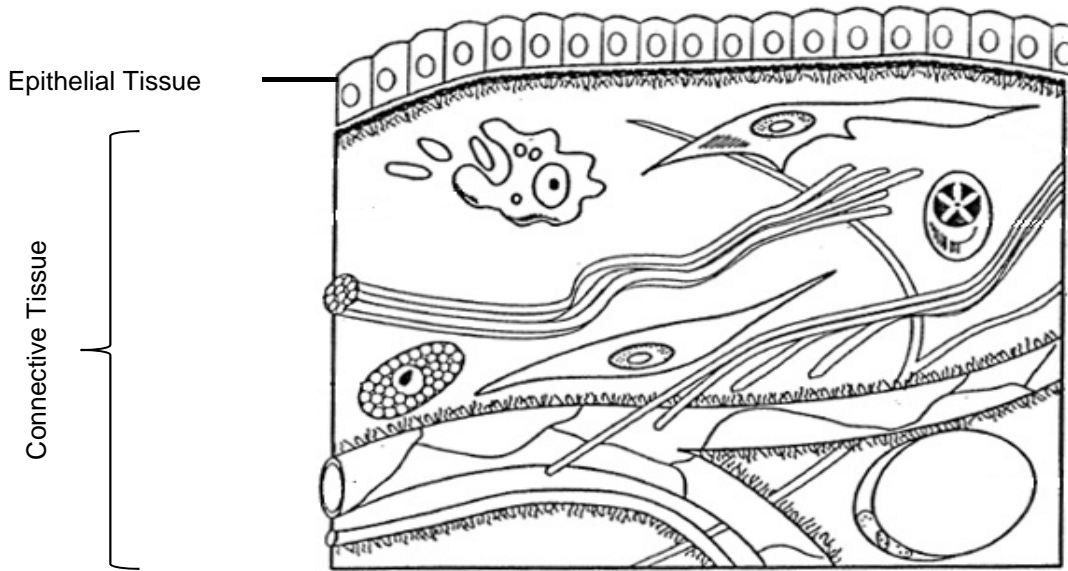


Section 4.2- Connective Tissue Regular Anatomy

Using different colors and the list below, color and label the different parts within connective tissue.



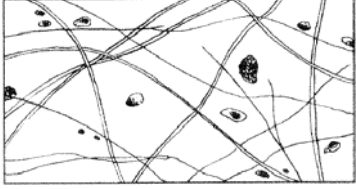
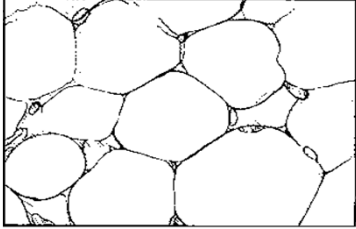
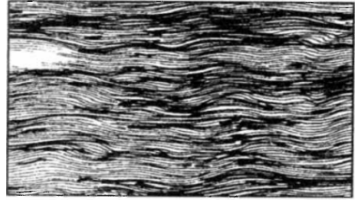
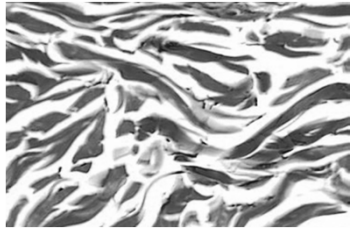
- Adipose cell
- Capillary
- Collagen fibers
- Elastic fibers
- Fibroblast
- Macrophage
- Matrix
- Reticular fibers

1. List the 6 functions of connective tissue.

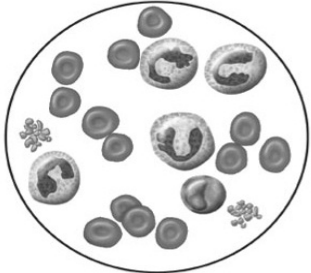
2. Connective tissue is characterized by its _____, _____, which makes it the most diverse of all types of tissues.
a. List 3 things found within the extracellular matrix of connective tissue.

1. _____ are cells that make protein fibers within connective tissue.
 - a. _____ is a substance that gives _____, a bundle of white fibers, its flexibility and strength.
 - b. _____ is a substance that gives _____, a yellow fiber, its ability to stretch and recoil.
 - c. _____ are found in reticular connective tissue, which is also called lymphatic tissue.

Fill in the table below by identifying the name of the connective tissue, one location in the body, and its functions.

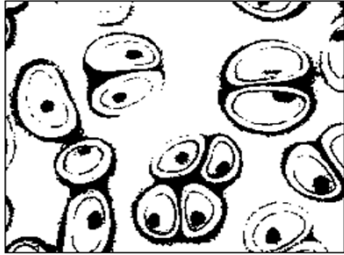
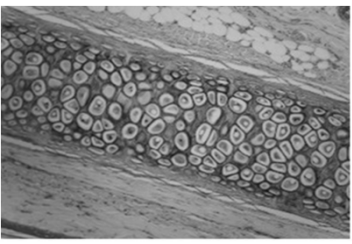
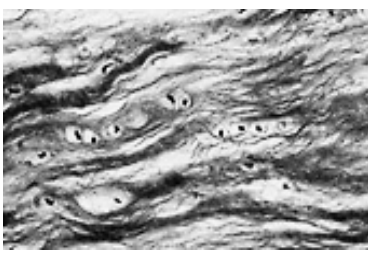
		Name of CT	Location in Body (1)	Functions
Fibrous Connective Tissue				
				
				
				

1. _____ are the main cells of fibrous connective tissue whose function is to make extracellular fibers.
2. The fat in adipose tissue is used as a source of _____ along with acting as insulation.
3. For dense connective tissue, explain what it means to be "regular" versus "irregular."

		Name of CT	Location in Body (1)	Functions
Blood				

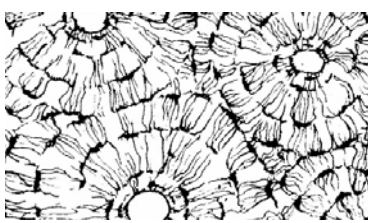
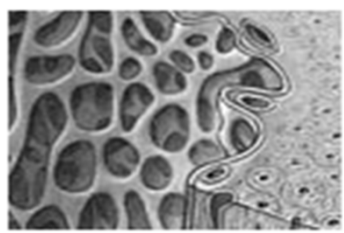
1. List the 4 things that make up blood.

Cartilage

	Name of CT	Location in Body (1)	Functions
			
			
			

1. Cartilage cells are called _____.
- a. Cartilage cells are housed in an encasing called a _____.
2. Cartilage is _____, which means that it lacks a direct blood supply.
- a. Because cartilage lacks a direct blood supply, it _____ very slowly.

Bone

	Name of CT	Location in Body (1)	Functions
			
			

1. Bone cells are called _____.
2. The mineral that gives bone its strength is _____.
3. Compact bone is composed of many cylindrical-shaped units called _____.
4. Spongy bone is composed of many bony bars and plates called _____.
5. Describe the difference in weight between compact bone and spongy bone.