Pre-lab exercise (adapted from Human Anatomy and Physiology, Elaine N. Marieb). Due at the beginning of your lab session.

1. Match the following. Each term can be used more than once.

   a. cardiac muscle        g. epithelium
   b. skeletal muscle       h. bone
   c. smooth muscle         i. loose areolar CT
   d. adipose tissue        j. elastic cartilage
   e. dense regular CT      k. hyaline cartilage
   f. dense irregular CT    l. fibrocartilage

   _____ Structural support of the external ear and other structures which need support with flexibility.
   _____ Lining of digestive and respiratory tracts.
   _____ Produces voluntary movements of bones.
   _____ Storage site of neutral fats.
   _____ Major component of tendons and aponeuroses.
   _____ Covers articular surfaces of long bones.
   _____ Striated and formed by long multinucleate cells.
   _____ Found in dermis where it withstands tension along many different planes.
   _____ Found in walls of hollow organs such as uterus or stomach.
   _____ Protects and supports soft tissues
   _____ Contains collagen and calcium deposits.
   _____ Striated and forms cell junctions visible as intercalated disks.

2. Match the following epithelial types with the appropriate description below.

   a. pseudostratified ciliated columnar  e. stratified columnar
   b. simple columnar                   f. stratified squamous
   c. simple cuboidal                   g. stratified cuboidal
   d. simple squamous                   h. transitional

   _____ Lines most of the digestive tract.  _____ Found in urinary tract organs.
   _____ Lines the esophagus.              _____ Secretory cells of salivary glands.
   _____ Lines much of the respiratory tract.  _____ Forms the walls of air sacs in lungs.

3. Name and describe the major components of connective tissue matrix.

4. A torn knee cartilage is often removed rather than allowed to heal. Why?