**Anatomy & Physiology TEST Review: Chemistry, Cells, Tissues**

Book Chapters Covered:

* Chapter 2 – Biochemistry (pp.36-48)
* Chapter 3
  + Cells (pp.54-57;61-64)
  + Tissues (pp.74-84)

**Chemistry** I can answer this without

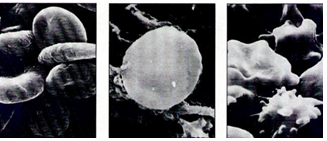
using my notes/book

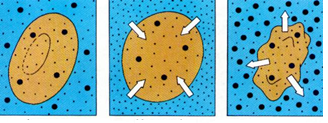
* What are “organic” compounds? YES / NO
* Which other elements are most common in organic cmpds? YES / NO
* What are the four types of macromolecules? YES / NO
* What is ATP? YES / NO

**Cells**

* What is a cell? YES / NO
* List the 3 main regions of a cell. YES / NO
* Describe the property of “selective permeability”. YES / NO
* Explain “solution tonicity” and how cells respond to each type. YES / NO
* Label each of these blood cells as being in an

isotonic, hypertonic, or hypotonic solution: YES / NO



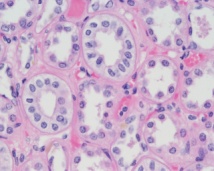


**Tissues (General)**

* What is a “tissue”? YES / NO
* List the 4 primary tissue types. YES / NO

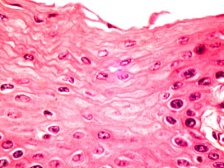
**Epithelial Tissues**

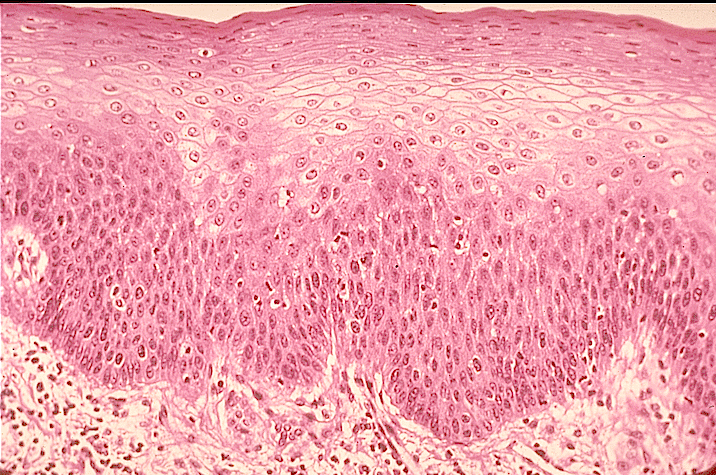
* What are the functions of epithelial tissue? YES / NO
* What names are given to the two surfaces of epithelium? YES / NO
* How are epithelial tissues named? YES / NO
* Which epithelial types do not fit into the naming scheme? YES / NO
* Differentiate between the two main gland types. YES / NO
* Identify each of the epithelial tissue types being shown below: YES / NO







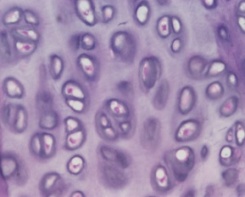


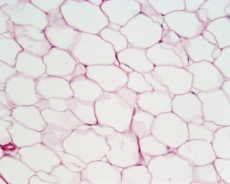


**Connective Tissue**

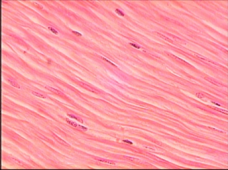
* List the 5 connective tissue types from most to least rigid. YES / NO
* Describe the blood supply to connective tissues. YES / NO
* What is an “extracellular matrix” *(the MAJOR characteristic of CT’s)*? YES / NO

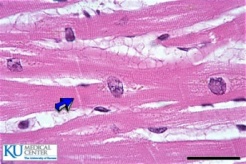
For each image below, identify which of the 5 connective tissue types is being shown:











* Where can cartilage be found? YES / NO
* What are some examples of dense connective tissues? YES / NO
* Why do tendons and ligaments take so long to heal? YES / NO
* What functions do loose connective tissues serve? YES / NO
* How can you differentiate between the 3 forms of muscle tissue? YES / NO
* What is “peristalsis”? YES / NO
* Why is blood considered a connective tissue? YES / NO
* Describe the structure of nervous tissue (a neuron). YES / NO
* Which 2 functions must a neuron be able to perform? YES / NO
* What are the three “lines of defense” against tissue damage? YES / NO
* What is the *cause* and *purpose* of inflammation? YES / NO
* When a wound does occur, describe the steps in the process of clotting. YES / NO
* What is the role of granular tissue in tissue repair? YES / NO
* What are the two mechanisms of tissue repair? YES / NO

**Chicks dig scars,**

**Glory lasts forever,**

**And word banks are for wimps.**