# Chapter 4, Principles of Anatomy and Physiology

Four types of tissues - ANS Epithelial, connective, muscle, nervous

How is epithelial tissue classified? - ANS Cell shape and arrangement of cells

TRUE OR FALSE: Epithelial tissues have an apical surface at the top and are attached to a basement membrane at the bottom. - ANS True

TRUE OR FALSE: Connective tissue fibers that are arranged in bundles and lend strength and flexibility to a tissue are collagen fibers. - ANS True

Which muscular tissue(s) can be voluntarily contracted? - ANS Skeletal

Which of the following tissues is avascular?

- (A) Cardiac muscle
- (B) Compact bone
- (C) Adipose
- (D) Stratified squamous epithelial
- (E) Skeletal muscle ANS Stratified squamous epithelial and adipose

If the lining of an organ produces and refeases mucus, which of the following cells would likely be found in the tissue lining the organ?

- (A) Goblet cells
- (B) Mast cells
- (C) Macrophages
- (D) Osteoblasts
- (E) Fibroblasts ANS Goblet cells

Why does damaged cartilage heal slowly? - ANS Cartilage is avascular, so materials needed for repair must diffuse from surrounding tissue.

TRUE OR FALSE: The serous membrane surrounding the lungs is called the pleura. - ANS True

The type of exocrine gland that forms its secretory product and simply releases it from the cell by exocytosis is the

- (A) Apocrine gland
- (B) Merocrine gland
- (C) Holocrine gland

# **Anatomy Physiology Chapter 4 Answers**

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