

## CHAPTER 9: MUSCULAR SYSTEM

### OBJECTIVES:

1. Compare and contrast the types of muscle tissues in terms of structure, control, location, and type of contraction, and function.

**Skeletal Muscle Tissue:** longest muscle organ that attach bones to skin, striated, voluntary. Responsible for body mobility. Often activated by reflexes, contracts rapidly but must rest after short periods of activities.

#### **Skeletal Muscle Characteristics:**

- 1. long, thin and multi-nucleated fibers;
- 2. striations;
- 3. voluntary control;
- 4. arranged into packages called muscles that attach to and cover the bony skeleton;
- 5. contracts rapidly & vigorously, but tired easily; may exert great force.

**Cardiac Muscle Tissue:** located in the heart, makes bulk of heart wall, striated, involuntary, contracts at steady rate due to pacemaker but nervous system can increase rate

#### **Cardiac Muscle Characteristics:**

- 1. network of branched fibers connected by gap junctions (intercalated disks);
- 2. only in heart;
- 3. striations;
- 4. involuntary control;
- 5. contracts at rhythmic, steady rate set by "pacemaker".

**Smooth Muscle Tissue:** Visceral, Located in walls of hollow organs (Stomach, Urinary Bladder and Airways), not striated, involuntary, contracts on own without nervous system stimulation but exerts influence

#### **Smooth Muscle Characteristics:**

- 1. lacks striations;
- 2. walls of hollow visceral organs and blood vessels;
- 3. involuntary control;
- 4. contractions are slow & sustained.

2. Describe three similarities among the three muscle tissues.

#### **Similarities:**

1. All muscle cells are elongated = **muscle fibers**;
2. Muscle contraction depends on two kinds of myofilaments (**actin and myosin**);
3. The cell membrane of a muscle cell is called "**sarcolemma**", while the cytoplasm of a muscle cell is called "**sarcoplasm**".

3. Identify the terms used for a muscle fiber's cell membrane and cytoplasm.

4. Describe the functions of muscle tissue.

# Chapter 9 Muscles Muscle Tissue Study Guide Answers

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