

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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Chapter 9 Muscles Muscle Tissue Study Guide Answers:

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