

A&P 2 Midterm Study Guide

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Ch. 10

Characteristics of smooth and cardiac muscle tissue

- Cardiac Muscle
 - Involuntary, intrinsically controlled, striated, branched, and single nucleated.
- Smooth Muscle (Visceral)
 - Involuntary, not striated, not branched, and singly nucleated.

Functions of the 3 types of muscle tissue

- Skeletal Muscle
 - Moves bones and other structures
- Smooth Muscle
 - Contractions and relaxation of the autonomic nervous system, and walls of organs
- Cardiac Muscle
 - Pump blood

Characteristics of skeletal muscle: excitability, elasticity

- Voluntary, striated, not branched, and multinucleated
- Excitability: ability to respond to a stimulus, delivered from a motor neuron or a hormone.
- Elasticity: ability to return to its original length & shape after contraction or extension.

Components of a skeletal muscle cell

- Myofibrils: cylindrical structures that extend along the complete length of the cell.

Twitch contraction

- Brief contraction of all muscle fibers in a motor unit in response to a single action potential in its motor neuron.

Layers of connective tissue holding skeletal muscle organs together (3 types)

- Epimysium: outer layer, dense irregular connective tissue, surrounds muscle organs
- Perimysium: middle layer, dense irregular connective tissue, contains nerves and vasculature; surrounds muscle fascicles.
- Endomysium: interior layer, loose/elastic connective tissue, contains capillaries, nerves and stem cells, surround muscle fibers.

Parts of the sarcomere

- Z Discs: narrow, plate-shaped regions of dense material that separate one sarcomere from the next.
- A Band: dark, middle part of sarcomere that extends entire length of thick filaments and includes those parts of thin filaments that overlap thick filaments.

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