

Muscular System Study Guide

The test will be over the following sections from the book and notes: Overview of muscle tissue, Muscle Functions, Microscopic anatomy of skeletal muscles, Nerve stimulus and the action potential, The sliding filament theory. Please be sure to study these sections and be ready for a quiz over them. Below are some questions that might help guide your studying. The first part are ones that I made up. The second part are questions that fellow students made up.

Standards

- 1) Describe how an action potential is initiated in a muscle cell.
- 2) Describe the events of muscle cell contraction.
- 3) Define *origin*, *insertion*, *prime mover*, *antagonist*, *synergist*, and *fixator* as they relate to muscles.
- 4) Demonstrate or identify the different types of body movements.
- 5) List some criteria used in naming muscles.
- 6) Describe the changes that occur in aging muscles.

Basic Study Questions

- 7) What does the muscular system consist of?
- 8) List 4 functions of muscles. *Produces movement, maintains posture, stabilizes joints, and generates heat.*
- 9) What is the main/essential function of muscles? *Contraction or to shorten.*
- 10) Muscles cells are also called _____ *muscle fibers*
- 11) Identify/name the 3 types of muscles found in the human body. *Skeletal, smooth, cardiac*
- 12) What are the major characteristics of each of the 3 types of muscles?
Skeletal – attached to bones, striated, cylindrical, multinucleated, voluntary
Cardiac – walls of the heart, branching cells, striated, uninucleated, involuntary
Smooth – walls of hollow organs, non-striated, cigar shaped, uninucleated, involuntary
- 13) Identify the muscle types that are involuntary? *See above*
- 14) Identify the muscle types that are voluntary? *See above*
- 15) All muscles are striated. (True or False) *False*
- 16) What are the different parts of a skeletal muscle? *Epimysium, perimysium, fascicle, endomysium*
- 17) How is a fascicle different from a muscle fiber? *A fascicle is made up of many fibers.*
- 18) What is the difference between Endomysium, perimysium, and an epimysium?
Endomysium – connective tissue sheath around the muscle fiber
Perimysium – coarse fibrous membrane that wraps the fascicle
Epimysium – tough outer covering of connective tissue around the entire muscle
- 19) Identify the 2 main proteins that makeup muscle fibers.
Actin and Myosin
- 20) Where is each type of protein, in the previous question, located within the muscle fiber?
Actin – z-line(thin filament), I band
Myosin – A band (thick filament)
- 21) Explain the “Sliding Filament Theory” in terms of how muscles contract.
See poster activity
- 22) What role does myosin play in muscle contraction?
It has heads that reach out and attach to the actin. These heads then pull the actin strands toward each other.
- 23) What role does actin play in muscle contraction?
It acts as a base that the myosin heads and bind to.
- 24) What is the place where thin filaments are anchored to called? *Z-disc*
- 25) What is an A-band/ I-band/H-zone?
A-band – the section of myofibril that contains the entire length of the myosin protein.
I –band – the section of myofibril that contains only the actin proteins.
H-zone – the section of the myofibril that appears to have a space that appears to disappear when the muscle is contracted.

Muscular System Study Guide

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Study Guide for The Anatomy and Physiology Learning System Edith Applegate,2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter

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Andrew Case,2011-02-23 The all new Study Guide for Essentials of Anatomy Physiology offers valuable insights and guidance that will help you quickly master anatomy and physiology This study guide features detailed advice on achieving good grades getting the most out of the textbook and using visual memory as a learning tool It also contains learning objectives unique study tips and approximately 4 000 study questions with an answer key all the tools to help you arrive at a complete understanding of human anatomy Study guide chapters mirror the chapters in the textbook making it easy to jump back and forth between the two during your reading Approximately 4 000 study questions in a variety of formats including multiple choice matching fill in the blank short answer and labeling reinforce your understanding of key concepts and content Chapters that are divided by the major topic headings found in the textbook help you target your studies Learning objectives let you know what knowledge you should take away from each chapter Detailed illustrations allow you to label the areas you need to know Study tips offering fun mnemonics and other learning devices make even the most difficult topics easy to remember Flashcard icons highlight topics that can be easily made into flashcards Answer key lists the answers to every study question in the back of the guide

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Study Guide for Human Anatomy and Physiology Evelyn Biluk, 2012-06-23. This is a collection of multiple choice questions on the skeletal system, muscular system, and CNS. Topics covered include functions of the skeletal system, classification of bones, characteristics of bones, axial skeleton, appendicular skeleton, an overview of the muscular system, skeletal muscle contraction and relaxation of skeletal muscle, muscle metabolism, muscle tension, types of muscle fibers, movement, and naming skeletal muscles. These questions are suitable for students enrolled in Human Anatomy and Physiology I or General Anatomy and Physiology.

Anatomy and Physiology Laboratory Manual and Study Guide Elizabeth J. Shisler, 1955.

Student Notebook and Study Guide to Accompany The Human Body Bruce Wingerd, Patty Bostwick Taylor, 2013-02-01. This Student Notebook and Study Guide is the ideal companion to Bruce Wingerd's The Human Body. It reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning.

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$$\frac{d}{dx} \left(\frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{g(x)^2}$$

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