

Final Exam Study Guide
Anatomy and Physiology 1
Dr. Surmack

Date of Exam: December 11, 2017

Chapter 1: An Introduction to Anatomy and Physiology

- Anatomy
 - The study of body structure
- Physiology
 - The study of body function
- A&P is important to understand because...
 - Foundation for healthcare
 - Understand your own body
 - Understand diseases
- Levels of organization
 - Chemical/Molecular (More in Chapter 2)
 - The atom is the smallest stable unit of matter
 - Cellular (More in Chapter 3)
 - The cell is the smallest living unit
 - Tissues (More in Chapter 4)
 - Groups of cells working together and surrounding material
 - 4 Types
 - Epithelial
 - Connective
 - Muscle
 - Nervous
 - Organ
 - Structure of 2 or more tissues that perform a particular function
 - Organ System
 - 2 or more organs that work together for a specific purpose
 - Organism
 - Individual living things
- 11 Organ Systems
 - Integumentary
 - Protects against hazards
 - Regulates body temperature
 - Sends sensory information
 - Skeletal
 - Support and protection
 - Stores calcium
 - Forms blood cells
 - Muscular

Level of Organization	Explanation	Example
 Molecule Level	Molecules are the smallest unit of matter. Cells are made of molecules that all maintain their properties of other elements.	Carbon, Hydrogen, Oxygen
 Cellular Level	Cells are the basic units of life. Cells are organized by a membrane that controls what enters and leaves the cell by allowing certain materials to pass through.	Neuron, DNA, Cardiomyocytes
 Tissue Level	Cells are the smallest units of life. Cells are organized by a membrane that controls what enters and leaves the cell by allowing certain materials to pass through. Tissues are groups of cells with similar functions.	Muscle tissue, Skin tissue, Nervous
 Organ Level	Tissues are made of similar types of tissues that work together to complete a specific task.	Heart, Liver, Brain
 Organ System Level	An organ system is groups of organs that work together to accomplish a specific task.	Endocrine System, Circulatory System
 Organism Level	The organism has several organ systems that function together.	Human

Anatomy Second Semester Final Study Guide

University of Minnesota

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Report of the Superintendent of Public Schools , 1871 Annual Register , 1898 **Catalogue ... and Announcements** University of Minnesota, 1898 **Journal of the American Medical Association** American Medical Association, 1896 Includes proceedings of the Association papers read at the annual sessions and list of current medical literature General Information and Announcements University of Oklahoma, 1912 Catalog Issue for ... University of Oklahoma, 1907 Report of the President University of Oregon, 1897 Announcement of the College of Dentistry of the University of California for Its ... Session University of California (1868-1952). College of Dentistry, 1900 *Peterson's Annual Guides to Graduate Study* , 1983 **Announcements** University of Nebraska (Lincoln campus). College of Medicine, 1931

Massage and Manual Therapy for Orthopedic Conditions Thomas Hendrickson, 2020-05-22 This book introduces massage techniques for orthopedic conditions promoting the alignment of soft tissue relating to pain and dysfunction An essential manual for clinical massage therapy it contains brief descriptions of rationale behind orthopedic massage mechanisms of injury to and repair of soft tissue and anatomy of each body area The Second Edition also includes detailed assessment for each body region discusses common lesions and provides illustrated instructions on how to administer this

scientifically based style of massage Based on traditional orthopedic assessment protocols coverage includes range of motion passive and isometric testing and tests that determine the severity of a condition or injury Register University of Minnesota. Institute of Agriculture, Forestry, and Home Economics, 1912 **Annual Catalogue of the University of Kansas** Kansas. University, University of Kansas, 1927 Annual Catalogue University of Kansas, 1927 **Laboratory Textbook of Anatomy & Physiology** Michael G. Wood, 1998 For a two semester Anatomy and Physiology laboratory course An ideal companion to Martini's Fundamentals of Anatomy and Physiology 4th Edition but also appropriate for any mainstream anatomy and physiology text The first full color A P lab manual correlated to Martini FAP 4 e it can be used with other A P texts

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