### Exam #1 Study Guide

#### Chapter One:

-Anatomy- the study of the <u>structure</u> of the human body and its parts

-Physiology- the study of the function of the human body and its parts

→ Structure/Function = Anatomy/Physiology

→ The structure of organs and parts determine the function

→ If a structure changes, its function might also; directly dependent EX: Hemoglobin molecules

Structure = flat, concave, circular

 This allows for oxygen to be close to the surface of a cell, so it can pass through the blood stream in and away from the heart

Function = to carry oxygen

Function is to carry oxygen so the flat/circular structure makes sense

\*If the structure is mutated, sickle-cell anemia results\*

→function is directly affected b/c of a change in structure

-Levels of Structural Organization

- Subatomic Particles: protons, neutrons, electrons that make up cells
- Atom: tiny particles that make up chemicals <u>EX</u>; hydrogen, carbon
- Molecule: particles consisting of atoms EX; water, glucose
- Macromolecule: large particles consisting of molecules EX: DNA, protein
- Organelle: functional part of a cell <u>EX</u>; mitochondria, lysosome
- Cell: basic unit of structure and function EX; muscle, nerve, or blood cell
- Tissue: layer or mass of cells with specific function EX: adipose tissue
- Organ: group of different tissues with a function EX: heart, kidney, liver
- Organ System: group of organs w/ common function EX; digestive system
- Organism: composed of organ systems interacting EX; human

\*To know what is going on w/ the body as a whole, you must know how each part is functioning and interacting!\*

-Organ Systems

- Integumentary: protection, thermoregulation, sensory reception, vitamin D production
- <u>Skeletal</u>: framework, protection, attachment site, storage of inorganic salts, support and movement, produce blood cells (bone marrow)
- Muscular: movement, body heat, maintain posture
- Nervous: control center, detects changes in body and reacts if needed using nerve impulses
- <u>Endocrine</u>; integration and coordination of organ function through hormone impulses

# **Exam P 1 Study Guide**

J Elliott

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