Study Guide # 1

Human Anatomy

Chapters 1 and 2: Introduction to Human Anatomy and Cells

1. Describe the *levels of organization* of the human body and superficial body regions (Lab Unit 1)
2. Describe the anatomical position. Why is this concept useful and important? (Lab Unit 1)
3. What are the planes of the body? Describe the terms of position and direction. (Lab Unit 1)
4. Name & describe the various body cavities & identify the major organs in each. (Lab Unit 1)

**Chapter 3: Epithelial and Connective Tissues; Membranes; Fasciae**

1. Describe the 3 *primary germ layers*; describe the 4 *primary tissues* in the body.
2. Describe the typical *characteristics* and list the general *functions* of epithelial tissue.
3. Describe cell attachments in epithelial tissue and how can the apical end be specialized.
4. Describe the method of classification of epithelial tissue the location of these tissues in the body.
5. What is glandular epithelium? Define and compare an exocrine gland to an endocrine gland.
6. Describe Merocrine, Apocrine and Holocrine glands (giving specific examples of these glands).
7. Describe the *characteristics* of connective tissues. List the general *functions* of connective tissue.
8. List the specific names for the different types of loose, dense and supporting connective tissue.
9. Describe how these connective tissues differ from each other, their function and location in body.
10. List the *characteristics* and *functions* of 3 types of membranes. Where would each be found?
11. Describe the role and location of superficial fascia, deep fascia and subserous fascia.

**Chapter 4: The Integumentary System**

1. Discuss the general arrangement of the integumentary system and all of its functions in the body.
2. Describe the layers (strata) of the epidermis, their arrangement, structure and function.
3. Name 4 different cell types in the epidermis, their locations, structure and functions.
4. Describe the 2 layers of the dermis and how they differ; describe the hypodermis.
5. List and describe the accessory structures of the integumentary system: Hair, Nails and Glands.
6. Describe 3 different types of glands in the dermis. What are their functions & specific locations?
7. What accounts for skin color, how can it change? What is hair? Discuss its color and texture.
8. What is a pimple? Acne? Dermatitis? Discuss the major types of skin cancer. (Worksheets)
9. Does the thickness of skin vary? Where and why? What are fingerprints? What is their purpose?
10. Describe how the blood supply in the epidermis, dermis and hypodermis differ from one another.
11. Label the structures on the integumentary diagram. Outline fingernail and hair/follicles structure.
12. Which cells are responsible for sensation in skin? What are some disorders of the skin?
13. Briefly describe the role of the integumentary system in thermoregulation of the body.
14. Comprehensively describe the effects of aging on the integumentary system as discussed in class.
15. Describe the difference between a first, second and third degree burn. Include tissue damage, the symptoms, the risks factors and the recovery periods for each type.