

**BIOLOGY 217
HUMAN ANATOMY & PHYSIOLOGY I
EXAM 2 REVIEW SHEET**

Material Covered on Exam: Chapters 4-5

For this exam, you will be expected to . . .

- Define and differentiate between the terms: histology versus cytology.
- Name the three types of germ tissue and describe the adult tissues into which they differentiate.
- Name the four principle tissue types and briefly describe each.
- Describe the location and function of the various types of membranes of the human body.
- List the structural and functional characteristics common to all epithelial tissue.
- Describe how epithelial tissues are named and classified.
- Indicate the function, location, and description of the different types of epithelial tissue.
- Define the following: gap junctions, desmosomes, hemidesmosomes, adhesion belts, and tight junctions.
- Define gland and differentiate between endocrine versus exocrine as well as the different types of secretory classifications and structural classifications.
- List the common characteristics of all connective tissue.
- Be able to discuss the type of matrix and cell type associated with each type of connective tissue.
- Indicate the function, location, and description of the various types of epithelial tissue found within the body.
- Indicate the function, location, and description of the various types of connective tissue found throughout the body.
- Indicate the function, location, and description of the various types of muscle tissue found throughout the body.
- Indicate the function, location, and description of the various types of nervous tissue found throughout the body.
- Describe the various functions of skin.
- Name the types of tissues associated with the epidermis, dermis, and hypodermis.
- List the 5 major layers of epidermis and describe the functions and characteristics of each.
- List the 2 major areas of the dermis and describe the characteristics of each.
- Describe the factors that normally contribute to skin color.
- Compare the structure, location, and product of sweat glands versus oil glands.
- Compare and contrast the modified sweat glands including: eccrine, apocrine, ceruminous, and mammary glands.
- List the 4 different sensory receptors of skin and describe each.
- List the parts of a hair and follicle and explain the function of each part. Also describe the relationship of the arrector pili muscle relative to the hair follicle.

- Describe the structure and function of nails.
- Summarize the characteristics of the three major types of skin cancer and discuss the ABCDE Rule.
- Describe the different types of hormones that affect skin.
- Describe the various skin disorders discussed in class as well as the age-related changes that occur in skin.
- Define the following terms: strata, keratin, cyanosis, epidermal ridges, dermal papillae, cleavage lines, striae, cutaneous network, and melanosomes.

Additionally, you should be reviewing the following items . . .

- Course Textbook; Chapters 4-5
- Course Supplement; Modules 5-6
- A & P Lab 4
- Hole's Anatomy & Physiology; Chapters 4-6
- Anatomy & Physiology (McKinley text); Chapters 5-6
- Principles of Anatomy & Physiology (Tortora text); Chapters 4-5
- Seeley's Anatomy & Physiology; Chapters 4-5

Also, be sure to take a look at the links and resources on Canvas and my lecture and laboratory webpage. ***This study guide covers the majority of information on the lecture exam, but possibly not all of it. You are still responsible for any information that was covered but not put on this study guide (intentionally or unintentionally). Good Luck and Study Hard!!!***