**Advanced Human Anatomy and Physiology – Fall 2017 Semester Final Review**

**Unit 1: Introduction and Orientation**

1. What are the levels of organization in human anatomy? What is the most complex? Least?
2. What body system regulates the body through the use of the hormones?
3. What region of the body does the word ‘carpal’ refer to?
4. What would you see on the ventral side of a human?
5. What organs are located in the thoracic cavity? The abdominopelvic cavity?
6. What body system is the larynx apart of?
7. What body term describes the wrist? The elbow?
8. What are the functions of each body system?
9. Know your body landmarks!

**Unit 2: Blood**

1. What are the functions of blood?
2. What is blood mostly composed of?
3. What is the most abundant type of blood?
4. What is the condition in which red blood cells do not carry enough oxygen?
5. What is blood clumping called?
6. Which blood type would you have if you had Anti-A antibodies?

**Unit 3: Cardiovascular System**

1. What is the SA node responsible for?
2. What is often called the pacemaker of the heart?
3. What is the only oxygenated vein?
4. Which valve separates right atrium and right ventricle?
5. What is the protective sac that surrounds the heart?
6. What is the average resting heart rate for an adult?
7. Which blood vessel carries blood into the right atrium?

**Unit 4: Cells and Tissues**

1. What are the types of connective tissue? Which is the most widespread?
2. What is the function of ribosomes?
3. What type of tissue is responsible for picking up debris?
4. What is adipose tissue?
5. What type of tissue lines the urinary tract?
6. What is the function of the mitochondria?
7. What are the types of connective tissue?
8. What type of muscle tissue is found in the walls of hollow organs?
9. What type of connective tissue connects bones to bones?
10. What does cell theory state?
11. What are the differences between prokaryotes and eukaryotes?
12. Intercalated discs are unique to what type of muscle tissue?

**Unit 5:** **Endocrine System**

1. What gland is located superior to the kidneys?
2. What two hormones regulate blood calcium levels and what two glands are they released from?
3. An enlargement of the thyroid gland leads to what disease?
4. What hormone controls your circadian rhythm?
5. What are the male and female sex hormones?
6. When is ADH released?
7. What would happen to females if the production of prolactin decreased?
8. What disease causes a “rhino hump”?
9. What are the cells called in the Pancreas that secrete insulin and glucagon?

**Unit 6: Integumentary System**

1. What are the layers of skin in order from exterior to inferior?
2. What gland secretes oil to soften skin and fight off bacteria?
3. What is the name of the pigment that gives skin its color?
4. What is the name of the membrane that covers the exterior of the body?
5. What is the name of the protein that hardens skin cells?
6. What layer is unique to areas of the body that are hairless?
7. What are the layers of the epidermis in order from exterior to inferior?