Anatomy 35 Study Guide for Exam II

**Muscles**
1. I am giving you a picture of several muscle images which are labeled with the name of the muscles. Be sure you know each muscle in these images and that you are able to label a similar image.
2. What are the functions of muscle?
3. What is the structure of skeletal muscle? Be sure you know the connective tissue membranes that surround each muscle fiber, fascicle, and muscle.
4. How are muscles named? Be able to give examples.
5. What are the muscle types based on the orientation of fibers?
6. What are the functional groups of muscle by action?
7. Describe the microstructure of muscle.
8. What is a sarcomere? Be able to describe it.
9. What are thick filaments? What are thin filaments?
10. What is a motor unit?
11. What is the motor end plate?
12. Where are calcium ions stored in muscle cells?
13. What is a cross bridge?
14. Compare and contrast skeletal muscle, cardiac muscle, and smooth muscle.
15. Be able to write the origin, insertion, and action on any muscle in the second muscle lecture.

**Respiratory**
1. Know the functions of the respiratory tract.
2. Know the two zones and their components.
3. Be familiar with the special characteristics and structure of each portion of the respiratory tract.
4. What is a deviated septum? What is cleft palate?
5. Know the regions of the pharynx
6. Know the structure of the larynx and the cartilage with which it is supported.
7. Be familiar with the vocal cords, the associated structures, and the method by which sound is produced.
8. Know the structure of the trachea, the purpose of the C-ring cartilage, how the circle is completed and why.
9. Know the bronchial tree and which regions are served by the various levels.
10. Know the structural differences that occur as the bronchi become smaller.
11. Be familiar with the gross anatomy of the lung.
12. Be familiar with the microscopic anatomy of the alveoli and the types of cells that are found there.
13. What is the respiratory membrane?
14. How is the respiratory tract altered by asthma, copd, and CF?

**Digestive system**
1. Know all of the regions of the digestive tract from the mouth to the anus. Be able to label a figure if necessary.
2. What are the functions of the digestive system?
3. Know the layers of the tunics in the digestive system.
4. Which structures are located in the mouth?
5. What are the characteristics of human teeth?
6. Be able to name the salivary glands, know their location, and what they produce.
7. What is the structure of the esophagus? How much of the esophagus is under voluntary control?
8. What are rugae? What is the function of the stomach?
9. What types of cells are associated with the gastric pits? What are their functions?
10. What are the regions of the small intestines?
11. What adaptations to increase surface area are found in the small intestines?
12. Through which structures do bile and pancreatic juice enter the duodenum?
13. What are the major functions of the liver? Be familiar with the macroscopic and microscopic structure.
14. What is the gall bladder? What is its function?
15. What are the functions of the pancreas?
16. What are the seven regions of the large intestines?
17. What are haustra? What is the taenia coli?
18. What is roux-en-y bypass surgery?