Study Guide # 5

Human Anatomy

**Chapter 24:** **Respiratory System**

1. List all of the major the structures of the Respiratorysystem from the nose to alveoli where gases are exchanged.
2. Describe how the nasal cavity is designed to “treat” the inspired air on its way to the alveoli.
3. What are the muscles of Ventilation? Are they different for inspiration and expiration?
4. Describe the cartilaginous arrangement of the larynx. What is the role of the larynx?
5. Explain the term ‘respiratory epithelium’. Where in the respiratory tract does this change, why?
6. Describe how the bronchi (1o, 2o and 3o) differ from the bronchioles and the alveoli.
7. Discuss the alveoli and the 3 types of cells found there. What is the significance of Surfactant?

**Chapter 25:** **Digestive System**

1. List the all the structures of the Digestive System and give a general outline of their function.
2. Describe the oral cavity. Describe the 3 extrinsic salivary glands, their roles and locations.
3. What are the 4 Histological layers of the GI tract? Describe their specific functions in all regions.
4. Describe the anatomy of the mucosa of the small intestine and how it is specialized.
5. What are the submucosal and the myenteric plexuses? Discuss their functions in various regions.
6. Discuss the muscle layers of the GI tract? How are they typically arranged, are there exceptions?
7. Describe the anatomical/functional relationship of the liver, gallbladder, pancreas & duodenum.

**Chapter 26 and 27:** **Urinary and Reproductive Systems**

1. Describe the location in the body and the organs of the urinary system.
2. Discuss the roles of the structures of the renal system.
3. List and describe the functions of the kidney.
4. Explain the anatomy of the kidneys, including all the critical structures and their functions.
5. Describe the anatomy of the functional unit of the kidney (the nephron).
6. Trace the blood supply to the nephron. How is this anatomical arrangement special?
7. Outline the structures and general functions of the male reproductive system.
8. Outline the structures and general functions of the female reproductive system.
9. Describe the anatomical and functional arrangement of the spermatic cord (males).
10. Outline the functional anatomy of the ovaries, uterine tubes and uterus (female).
11. Compare and contrast the secondary sexual characteristics of males and females.