Study Guide Exam 4

Objectives Chapter 16 Organs Associated with the Digestive Tract

This chapter should help the student to:

1. List the accessory glands attached to the digestive tract by their ducts and describe their roles in digestion.
2. Distinguish between the major salivary glands based on the content and distribution of serous and mucous cells.
3. Describe the histology of the pancreas, emphasizing the structure of the pancreatic acini and ducts.
4. Describe the liver’s double blood supply.
5. Describe the boundaries and contents of the classic liver lobule, the portal lobule and the hepatic acinus.
6. Describe the structure and function of the gall bladder.
7. Identify the digestive glands and the gall bladder in micrographs.

Objectives Chapter 19 The Urinary System

This chapter should help the student to:

1. List the organs of the urinary system.
2. Describe the regions and structures present in a longitudinal section of the kidney.
3. Describe the structure, function and location of each component of the nephron and identify these components in a micrograph.
4. Describe the function of the juxtaglomerular apparatus and list its components.
5. Trace the flow of the urinary filtrate from Bowman’s space to the exterior naming, in order, the tubules and components of the urinary tract. Describe the epithelial lining of each component.

Objectives Chapters 22 and 23 The Male and Female Reproductive Systems

These chapters should help the student to:

1. Describe the general organization of the testis.
2. Describe the structure of the wall of the main ducts of the male reproductive system.
3. Describe Sertoli and Leydig cells in terms of their structure, function, location, and embryonic origin.
4. Compare the accessory glands of the male reproductive system in terms of general organization, epithelial lining, secretory products, and the point(s) at which their secretions enter the duct system.
5. Describe and recognize the principal maturation stages of ovarian follicles.
6. Describe the histological changes in the endometrium associated with the proliferative and secretory phases of the menstrual cycle.
7. Describe the menstrual cycle and its regulation by pituitary and ovarian hormones.