

CH 24: Digestive System Study Guide

1. *What are the two reasons that food is vital to life?*
2. *Name and give a brief definition for each of the five basic processes of digestion*
3. *Name and give a brief description for each of the two types of digestion. Be able to name the organs for the two types of digestion. Do some of the organs share responsibility for both type of digestion?*
4. *What are the two main groups of digestive organs? list the organs in each group.*
5. *Name, and then describe, the four main layers of the GI tract. Be able to correlate the structure and function of the four layers.*
6. *What is the peritoneum? Differentiate between parietal peritoneum, visceral peritoneum, and the peritoneal cavity.*
7. *What does retroperitoneal mean? Name some retroperitoneal organs.*
8. *What is saliva? What are the normal composition? What are the function of each constituent?*
9. *Be able to differentiate between parotid, submandibular, sublingual and buccal salivary glands.*
10. *Describe mechanical and chemical digestion in the mouth.*
11. *Define swallowing [deglutition] , and then describe the three phases by which the process occurs.*
12. *Describe the gross anatomy and histology of the esophagus and relate that to its function.*
13. *What is GERD?*
14. *Describe the gross anatomy and histology of the stomach and relate that to its function.*
15. *What is gastric juice? Why is the stomach pH so acidic? What type of chemical molecules are digested in the stomach? Discuss absorption in the stomach, if any.*
16. *Describe the gross anatomy and histology of the pancreas and relate that to its function.*
17. *What are there in the pancreatic juice? How do they help digestion?*
18. *Describe the gross anatomy and histology of the liver and relate that to its function. What is the importance of hepatic - portal circulation? What is portal triad?*
19. *What is bile? How is bile used in the digestive process of the small intestine?*
20. *Describe the gallbladder. Include its location, basic histology, how it is filled with bile, and how and when bile is removed from the gall bladder. Know the detailed connections between the liver and the gallbladder.*
21. *Describe the location of the small intestine and give the names of its three subdivisions.*
22. *Describe the histology of the small intestine in relation to its functions. What is plica circularis? What are villi? What are microvilli?*
23. *Describe the details of the digestive processes in the small intestine. What type of food chemicals are digested in here?*
24. *What is absorption? By what process(es) are carbohydrates and proteins absorbed? By what process(es) are fats absorbed?*
25. *Describe the location of the large intestine and give the names of its six subdivisions.*
26. *Describe the role of bacteria in the large intestine.*
27. *Describe the defecation reflex.*