## **Review Questions:**

- 1. Define digestion. Why is this process important?
- 2. List the 4 functions of the digestive system.
- 3. How does saliva contribute to the formation of a bolus?
- 4. What prevents food form entering the nasal chamber and the trachea during swallowing of food?
- 5. The opening to the larynx is called the \_\_\_glottis\_\_\_ \_, which is covered when the trachea moves up by the <u>epiglottis</u>

  6. What is responsible for heartburn and how is it normally prevented from occurring?
- 7. List the functions of the stomach. What is chyme?
- 8. What is the function of the gastric glands in the stomach?
- 9. What is an ulcer an why does it form?
- 10. List 4 functions of the small intestine. What molecule from the pancreas neutralizes the acidity of chyme?
- 11. Describe the structure of villi and microvilli in the small intestine.
- 12. How are the small nutrient molecules absorbed across the wall of each villus? What do they enter?
- 13. What is the function of the large intestine? How does its size compare with the small intestine?
- 14. Which organ of the large intestine may play a role in immunity and if inflamed leads to appendicitis?
- 15. Over 99% of the colon bacteria are *E.coli (obligate anaerobes)*, bacteria that die in
- the presence of oxygen.

  16. Describe the effects of bacteria in the large intestine. What does a high chloriform count in swimming water mean?
- 17. Why will food poisoning and nerve stimulation cause diarrhea?
- 18. How does mil of magnesia and mineral oil work to overcome constipation?
  19. What is the exocrine function of the pancreas? How does its products get to the duodenum?
- 20. Name the 2 hormones secreted from the duodenal wall that signal the pancreas and
- the gallbladder to release their products.
  21. What are the components of bile? Give their function. What organ produces bile? Where is it stored?
- 22. Explain why the liver is said to act as the gatekeeper to the blood.

1. Name the Pancreatic enzyme that in the duodenum will:

- 23. Define deamination. What happens to those amino groups in the liver? How is urea excreted?
- 24. List the 6 (7?) functions of the liver.
- 25. Name the enzyme found in the stomach. What is it formed from? What does it act upon? What products will it form?

## Questions:

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a. digest starch:	amylase	It forms the product_	maltose
b. digest Protein:	trypsin	It forms the product	peptides
c. digest fat droplets:			fatty acids + glycerol
	•		
<ul> <li>d. The end products (</li> </ul>	of fat digestion <u>reform</u>	in the	epithelial cells and are