

## Study Guide- Digestive System lesson 1-7

**Understanding these concepts will help you on the test. Questions on the test are not necessarily the same questions as below.**

**Study-** study stack, study guide and word walls

1. Define the words “organ” and “body system”. Give examples
2. Describe how food moves through the digestive tract.
3. List the steps involved in performing chemical tests for sugar and starch, and be able to conduct these test.
4. State the function of digestive enzymes.
5. Name the digestives enzymes in the mouth and stomach.
6. List at least four food sources of proteins, of carbohydrates, and of fats
7. Explain why the body needs proteins, carbohydrates, and fats
8. Describe the function of the sphincter muscles.
9. Explain the function of mucus.
10. Define and give examples of diffusion and indicate why it is also called passive transport.
11. Explain the difference between active and passive transport and indicate the importance of both processes in absorption.
12. Indicate why the small intestine needs an extensive internal surface area.
13. Explain the functions of the large intestine and indicate what conditions may arise when undigested wastes passes too quickly or too slowly through the large intestine.
14. List in order the organs of the digestive tract, beginning with the mouth.
15. What is Chyme?
16. Where does fat digestion begin?
17. Where does protein digestion begin?
18. What part of the large intestines stores wastes until it is ready to be eliminated?
19. Where does most chemical digestion occur?
20. What part of the large intestines has no known function in humans?

\*\* Know what is occurring in the diagrams on pages 29,46,47, 52 (fig. 7.2)

\*\* Know what should be occurring in the data table on the front of lab 4.1, lab 5 (the last two pages), and from lab 8 you should be able to calculate **surface area** of a solid rectangular object. Make sure you use the proper unit. (square centimeters) Length X Width of every side and add all six sides together.

Lab 6 – test tube diagram will be on your test. Know what happens to sugar(it diffused through the membrane) and starch(it didn't diffuse through the membrane).

\*\* Know the two types of digestion:

Mechanical- teeth, tongue chew food (mouth); stomach muscles churn and mix food.

Esophagus, stomach, intestines use the peristaltic (muscular) contractions to move food your digestive tract.

Chemical: Mouth- Amylase; Stomach- Gastric Juices (pepsin, and Hydrochloric Acid)

Intestines: receive Bile, more Amylase, and other enzymes not mentioned in your book.