

Name: _____

Unit 6—Digestive System Notes
Chemical and Chemical Digestion: Carbohydrates
Textbook: Marieb Chapter 23 (Online PDF available).

Expectation: Read the sections outlined below by page and topic. Complete the questions that follow. Turn in this assignment on March 9, 2018. At the beginning of class on Friday, March 9th, you will complete a warm up—measuring your understanding of the questions from this assignment. The warm up will be worth 2x the points of the notes. It does not benefit you to simply copy the answers—you must understand why they are the answers.

Page(s)	Section	Sub-Section
892-893	Physiology of Digestion and Absorption	Introduction Digestion Mechanism of Digestion Digestion of Carbohydrates Figure 23.32 + Prior Background Knowledge from Unit 2 + Prior Reading from this Chapter

Reading Questions: Answers must be numbered. Typed or neatly hand written.

1. What type of carbohydrate digestion occurs in the oral cavity?
 - a. What specific macromolecule can be broken down?
 - b. What enzyme is responsible for this digestion?
 - c. What is the product of this digestion?
2. Explain how both mechanical and chemical digestion work together in the mouth to achieve the chemical digestion of carbohydrates.
3. Where does pancreatic amylase do its work of digesting carbohydrates?
 - a. What specific macromolecule can be broken down?
 - b. What is the product of this digestion?
4. How are smaller carbohydrates like sucrose, lactose and maltose digested in the body?
 - a. What enzyme is responsible for the digestion of sucrose? Lactose? Maltose?
 - b. Where do these enzymes come from?
 - c. What is the product of sucrose digestion? Lactose digestion? Maltose digestion?
5. What specific types of carbohydrates can be absorbed by the body?
6. Where is the first stop for carbohydrates once absorbed by the blood?