

Name:

Date:

Grade:

Grade 8 Health Science- Digestive Enzymes Asynchronous Lesson Assignment # 1

Section A: Multiple Choice Questions (1 mark each)

Instructions: Answer **ALL** questions by selecting the correct answer.

1. Enzymes in the saliva begins the digestion of which nutrient?
 - a. acids
 - b. fats
 - c. proteins
 - d. starch

2. Which enzyme is found in the stomach that aids in the digestion of proteins?
 - a. lipase
 - b. maltase
 - c. pepsin
 - d. protease

3. Which enzyme is missing if a person cannot digest lactose?
 - a. glucose
 - b. lactase
 - c. protease
 - d. trypsin

4. What organ produces enzymes that help in the digestion of proteins, fats, and carbohydrates?

- a. gallbladder
- b. mouth
- c. large intestine
- d. pancreas

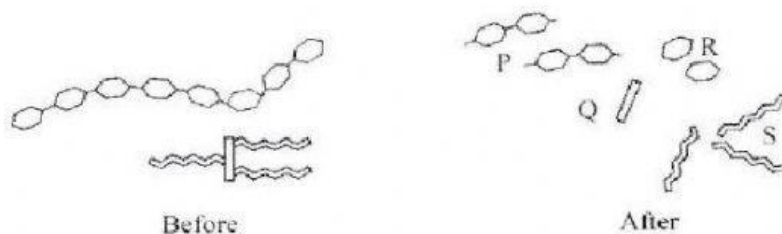
5. Enzymes in your body act as catalysts. Thus, the role of enzymes is to

- a. decrease the rate of chemical reactions
- b. help you breathe
- c. increase the rate of chemical reactions
- d. inhibit chemical reactions

6. Which secretion is NOT an enzyme?

- a. bile
- b. lipase
- c. protease
- d. trypsin

7. What is the function of enzymes?
- a. add acids
 - b. add bases
 - c. act as catalysts
 - d. produce proteins
8. Enzymes are catalysts that are made up of
- a. carbohydrates
 - b. lipids
 - c. proteins
 - d. substrates
9. The diagram shows two food molecules before and after they have been digested by enzymes.



What identifies the products of digestion of lipids?

- a. P and R
- b. P and S
- c. Q and R
- d. Q and S

Section B- Matching Exercise

Instructions: In the space provided, write the letter of the description that best matches the term or phrase.

- | | |
|---------------------|--|
| 1. ____ Amylase | a. An alkaline fluid made in the liver but stored in the gallbladder. |
| 2. ____ Lipase | b. Molecules that combine with glycerol to form fats. |
| 3. ____ Bile | c. An enzyme that breaks down proteins to amino acids. |
| 4. ____ Pepsin | d. A sac in the liver which stores bile before it is released down the bile duct into the small intestine. |
| 5. ____ Fatty acids | e. Biological catalysts that speed up the rate of chemical reactions in the body. |
| 6. ____ Protease | f. A digestive enzyme secreted by the stomach. |
| 7. ____ Enzymes | g. Pancreatic enzyme that digests fat. |
| | h. An enzyme in saliva that breaks down carbohydrates. |

Section C- Structured Questions (**21 marks**)

Answer the following questions in the spaces provided.

1. What are enzymes? (**2 marks**)

2. List 3 characteristics of enzymes. (**3 marks**)

3. Complete the following table by filling in the blanks. (**16 marks**)

Organ	Digestive Gland	Enzyme	Substrate	Product
Mouth		Salivary Amylase		
	Gastric Gland		Proteins	
	Pancreas			Fatty acids and glycerol
		Lactase	Lactose	and
Small intestine	Liver			

Note: This assignment is due at the end of the period