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

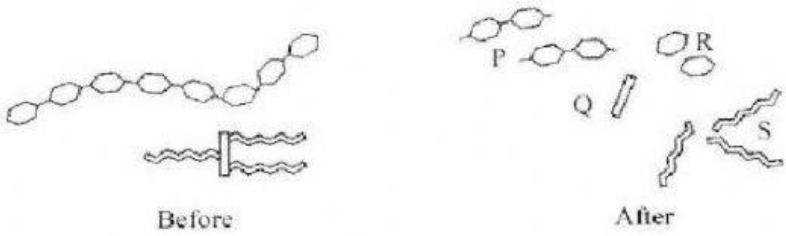
a. carbohydrates

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

2._____ Lipase

3. _____ Bile

4. _____ Pepsin

5.____ Fatty acids

6.____ Protease

7.____ Enzymes

a. An alkaline fluid made in the liver but stored in the gallbladder.

b. Molecules that combine with glycerol to form fats.

c. An enzyme that breaks down proteins to amino acids.

d. A sac in the liver which stores bile before it is released down the bile duct into the small intestine.

e. Biological catalysts that speed up the rate of chemical reactions in the body.

f. A digestive enzyme secreted by the stomach.

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