

1. The shape of a protein molecule is influenced by
 - (1) whether it is organic or inorganic
 - (2) the sequence of amino acids in it
 - (3) the number of genes found in the nucleus
 - (4) the number of chromosomes in the cell
2. Hemoglobin, insulin, albumin, and maltase, which are composed of chains of amino acids, are examples of
 - (1) proteins
 - (2) carbohydrates
 - (3) lipids
 - (4) nucleic acids
3. An element found in all proteins but not found in carbohydrates and lipids is
 - (1) carbon
 - (2) hydrogen
 - (3) oxygen
 - (4) nitrogen
4. Proteins ingested by animals are immediate sources of
 - (1) glucose
 - (2) cellulose
 - (3) fatty acids
 - (4) amino acids
5. The bond that joins two amino acids together is known as
 - (1) a double bond
 - (2) a hydrogen bond
 - (3) an ionic bond
 - (4) a peptide bond
6. Which organic compound is produced when three fatty acid molecules bond to one glycerol molecule?
 - (1) glycogen
 - (2) ATP
 - (3) PGAL
 - (4) a lipid
7. Animals commonly store energy in the form of
 - (1) fat and glycogen
 - (2) waxes and oils
 - (3) minerals and urea
 - (4) water and carbon dioxide
8. In living organisms, lipids function mainly as
 - (1) sources of stored energy and transmitters of genetic information
 - (2) sources of stored energy and components of cellular membranes
 - (3) transmitters of genetic information and catalysts of chemical reactions
 - (4) catalysts of chemical reactions and components of cellular membranes
9. Which compound is a polysaccharide?
 - (1) glucose
 - (2) maltase
 - (3) ribose
 - (4) starch
10. Two examples of carbohydrates are
 - (1) fatty acids and glycerol
 - (2) fats and waxes
 - (3) sugars and starches
 - (4) amino acids and alcohol

Homework # 1.11

Name: _____

Period: _____

Date: _____

Living Environment

ENZYMES

1. The material acted upon by an enzyme is the _____.
2. Because an enzyme operates in only one kind of chemical reaction, enzymes are said to be _____.
3. Enzymes are made of _____.
4. Part of the enzyme where the substrate attaches is the _____.
5. The chemical that an enzyme works on is the _____.
6. One model of how enzymes operate is called the _____.
7. The specificity of enzyme action is explained by the _____ concept.

Draw a diagram that would explain the **enzyme-substrate** complex. Label the *enzyme*, *substrate* and the *active site*. (3 points)