Biochemistry Reactions Worksheet

QUESTIONS:

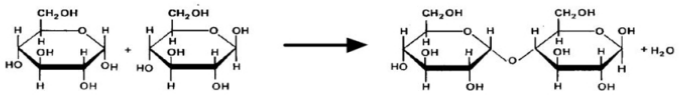
1. Match the definition with the correct term

- **A.** Condensation Synthesis
- **B.** Hydrolysis
- **C.** Monomer
- **D.** Polymer
- **E.** Polymerization

_____ Large molecules that consists of many subunits called monomers
_____ Identical or similar subunits of a polymer
_____ Process of linking monomers to form a polymer
_____ Loss of a water molecule between two monomers to form a covalent bond between the monomers
_____ breaking the covalent bond between monomers by adding a water molecule
_____ AKA dehydration synthesis

2. Indicate if each of the following is an example of condensation synthesis or hydrolysis.

Reaction #1:_____



Reaction #2:_____

Reaction #3:_____
Protein, carbohydrate, or lipid synthesis

Reaction #4:_____
Digestion of proteins, carbohydrate, or lipid

3. How can you tell if a chemical equation represents :

a. Condensation synthesis? _____
b. Hydrolysis? _____

4. How are carbohydrates classified? _____
_____

5. Match the description with the correct term.

A. Disaccharides
B. Lactose
C. Maltose
D. Monosaccharides
E. Polysaccharides
F. Sucroce

_____ Simple sugar
_____ General term used to describe a molecule that consists of 2 simple sugars covalently bonded
_____ General term used to describe a molecule that consists of 100s or 1000s of simple sugars covalently bonded
_____ Molecule that consists of 2 glucose molecules covalently bonded

_____ Molecule that consists of a glucose and a galactose covalently bonded
_____ Molecule that consists of a glucose and a fructose covalently bonded