

Honors Chemistry – Biochemistry Study Guide

Name: _____ Date: _____ Period: _____

Humans and Animals derive energy from _____, _____, and

_____.

_____, _____ and _____

are all examples of carbohydrates. Glucose, fructose and galactose are all simple _____

that fall under the category of _____. Disaccharides (such as sucrose and lactose) can

be hydrolyzed to produce _____. Hydrolyzed means to react with _____.

Starch and cellulose are examples of _____ that are made from the

monosaccharide _____. Humans can digest _____ but not

_____ because of the way the monosaccharides _____ together.

Fats are esters of _____ and _____. A fatty acid is typically a

long _____ chain and must include a _____ on the end.

Proteins are copolymers of _____, of which there are _____ specified in

humans. All amino acids have a _____ group and a _____ group that form

an amide link, known as a _____ when two acids bond together.

Proteins can form primary through quaternary structures. The primary structure is due to the

_____, whereas the secondary through quaternary structure is due to the following four

types of bonding: _____, _____, _____ and

Nucleic Acids:

There are two types of nucleic acids:

DNA, which stands for _____

and RNA, which stands for _____

Nucleic acids are made from chains of _____ that consist of

