

Chapter 3 Study Guide

CHAPTER 3 The Chemical Basis of Life II: Organic Molecules

1. **Be able to recognize the distinguishing features of the following functional groups: hydroxyl, carbonyl, carboxyl, amino, phosphate, methyl, sulfate, and sulfhydryl.**
 - a. Amino Group- A Nitrogen atom bonded to two Hydrogen Atoms (Polar)
 - b. Carbonyl- Double Bonded Oxygen attached to the Carbon Skeleton (Polar)
 - c. Hydroxyl- Hydrogen bonded to Oxygen which is then bound to the Carbon Skeleton (Polar)
 - d. Carboxyl- Include a Hydroxyl and a Carbonyl (Polar)
 - e. Methyl- Three Hydrogen Atoms bound to a Carbon (Non-Polar)
 - f. Phosphate- Phosphorus bonded to three Hydroxyls and one Carbonyl Group (Polar)
 - g. Sulfate- Sulfur Atom covalently bonded to four Oxygens (Polar)
 - h. Sulfhydryl- Hydrogen bonded to a Sulfur Atom (Non-Polar)
2. **Know whether the above functional groups are polar or non-polar.**
3. **Know what type(s) of molecules contain the above functional groups.**
4. **Explain the term "optical isomer" and be able to identify an asymmetric carbon atom.**

These are two compounds that contain the same number and kinds of atoms, and may be arranged nearly the same but have non-superimposable mirror images.
5. **Be able to define what a Polymer is.**

Polymers are large complex structures made from numerous but similar subunits.
6. **Be able to recognize condensation and hydrolytic reactions and know what they do in the formation and breakdown of organic molecules.**

Condensation Reaction- Water is removed from two monomers (usually Hydroxyl Groups) leaving the remaining Oxygens to hold the monomers together. This results in the formation of a Disaccharide.

Hydrolytic Reaction- Water is inserted into the Disaccharide, tearing apart the Oxygen Bridge and forming two Monosaccharides.
7. **Be able to recognize an ester bond**
8. **Be able to list the polymers and monomers of the four classes of organic molecules of biological importance.**
 - a. Proteins- Polypeptide (Polymers) Amino Acids (Monomers)
 - b. Sugars- Polysaccharides (Polymers) Monosaccharides (Monomers)
 - c. Lipids- Phospholipids (Polymers) Fatty Acids (Monomers)
 - d. Nucleic Acids- DNA and RNA
9. **Be able to recognize carbohydrates in either the ring or chain form.**
10. **Be able to list the functional groups found in carbohydrates.**

One Carbonyl Group, many Hydroxyl groups, and sometimes a Phosphate Group(s).
11. **Define what a glycosidic linkage is.**

A Glycosidic Linkage is a linkage between two monosaccharide units through Oxygen after a Condensation Reaction.
12. **Be able to differentiate between the alpha and beta positions in the ring form of a carbohydrate.**

Alpha Position- Hydrogen on top, Hydroxyl on the bottom.

Beta Position- Hydroxyl on top, Hydrogen on the bottom.
13. **Be able to recognize and define a monosaccharide, disaccharide, oligosaccharide, and polysaccharide.**

Monosaccharide- One of the classes of sugars that cannot be hydrolyzed

Disaccharide- Any of a class of sugars whose molecules contain two monosaccharides bonded together

Oligosaccharide- Contains 3-10 monosaccharides bonded together

Polysaccharide- Any class of sugars that contains any number of monosaccharides bonded together.
14. **Be able to list all the functions of carbohydrates.**
 - a. Short-Term Energy Storage
 - b. Cell Structure
15. **Know what functional groups may be found on the derived sugars.**

Phosphate Groups and Amino Groups are possible.
16. **What is the major function of a sugar-phosphate?**

Forms the sugar-phosphate backbone, which holds together the Deoxyribose sugars in DNA.

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