- 1. Hydrocarbons contain **hydrogen** atoms bound to **carbon** atoms.
- 2. Carbon atoms have four electrons always have **covalent** bonds between them.
- 3. What are the four most important biological molecules? **Carbohydrates**, **Lipids, Proteins , Nucleic Acids**
- 4. In dehydration synthesis water is **removed** and joins **monomers** to form polymers.
- 5. In hydrolysis reactions water is **added** and breaks **polymers** into monomers.

- 1. Carbohydrates are used for energy source of as the monosaccharide glucose.

  2. Some monosaccharides such as Roxyribose and ribose are for nucleolides of DNA and RNA.
- 3. The molecular formula for glucose is **C6H12O6**
- 4. Polysaccharides are energy source molecules. The most important one found in our body is **glycogen**, which consists of **glucose** subunits. Plants store glucose as starch or cellulose.

## Lipids

- 1. Lipids are insoluble in water because they lack **hydrophilic** functional groups.
- 2. Triglycerides are composed of **fatty acids** and **monoglycerides**.
- 3. Where are triglycerides found? **Fat**