

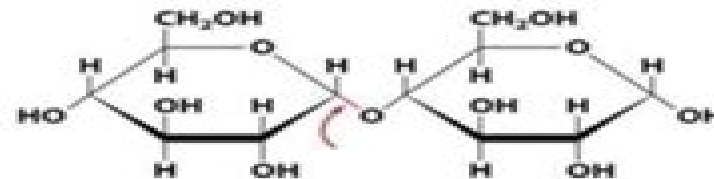
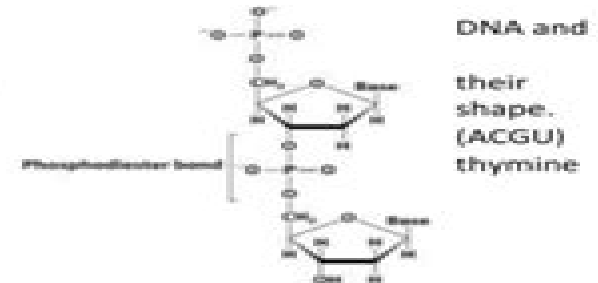
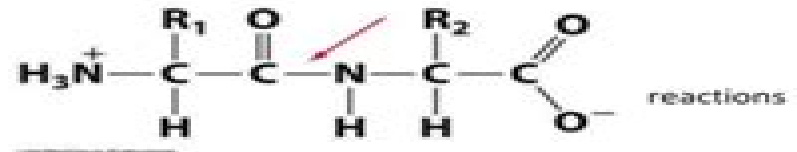
Chapter 1: Chemical Basis of Life

Four Major Biomolecules

- I. **Amino Acids:** contain an amino group and a carboxylic group and an side chain/R group
 - Under physiological conditions, ionized to NH_3^+ and COO^-
 - Ex. Alanine and Asparagine
- II. **Carbohydrates:** (monosaccharides/sugars)
 - Formula = $(\text{CH}_2\text{O})_n$
 - Ex. Glucose
- III. **Nucleotides:** five-carbon sugar, nitrogen-containing ring, and one or more phosphate groups.
 - Ex. Adenosine Triphosphate (ATP)
- IV. **Lipids:** poorly soluble in water due to its bulky hydrocarbon-like structure.
 - Ex. Palmitate and Cholesterol

3 Major Biological Polymers

- I. **Proteins (Polypeptides):** Polymers of amino acids.
 - Amino acids linked via peptide bonds.
 - Can perform tasks such as mediating chemical and provide structural support.
- II. **Nucleic Acids (Polynucleotides):** polymers of nucleotides; RNA
 - Primary Role: carriers of genetic information, contained in sequence of nucleotide residues rather than their 3D
 - **RNA:** nucleotides – adenine, cytosine, guanine, and uracil
 - **DNA:** nucleotides – adenine, cytosine, guanine, and thymine (ACGT)
- III. **Polysaccharides:** contain only one or a few different type of monosaccharide residue
 - Limited potential for carrying genetic information in the sequence of their residues or for adopting a large variety of shapes and mediating chemical reactions
 - Serve as fuel-storage molecules and provide structural support.
 - Linked via glycosidic bonds



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