

## Module 1 Study Guide

### Module 1: What is Biochemistry?

- Chemical Basis of Life
- Classes of Biomolecules and Biochemical Polymers
- Cells Require Energy to Live, Grow and Reproduce
- Gibbs Free Energy and Spontaneous Reactions

### Lehninger Chapter 1

#### Learning Objectives

##### LO: Recognize the main themes of biochemistry

1. Living organisms are made of macromolecules
2. Organisms acquire, transform, store, and use energy → living organisms follow laws of thermodynamics
3. Biological info is transmitted from generation to generation

##### Other Themes

4. Cells maintain a state of homeostasis, not equilibrium
5. Organisms evolve
6. Diseases can be explained at biochemical level

##### LO: Identify the major classes of biological molecules

1. Lipids
2. Carbohydrates
3. Nucleotides
4. Amino acids

##### — List the elements found in biological molecules

- Almost all biological molecules are made from H, N, O, P, and S
- Most abundant elements in living systems are C, N, O, and H
  - Others: Ca, P, K, S, Cl, Na, Mg
  - Trace elements are also present in small quantities

##### — Draw and name common functional groups in biological molecules

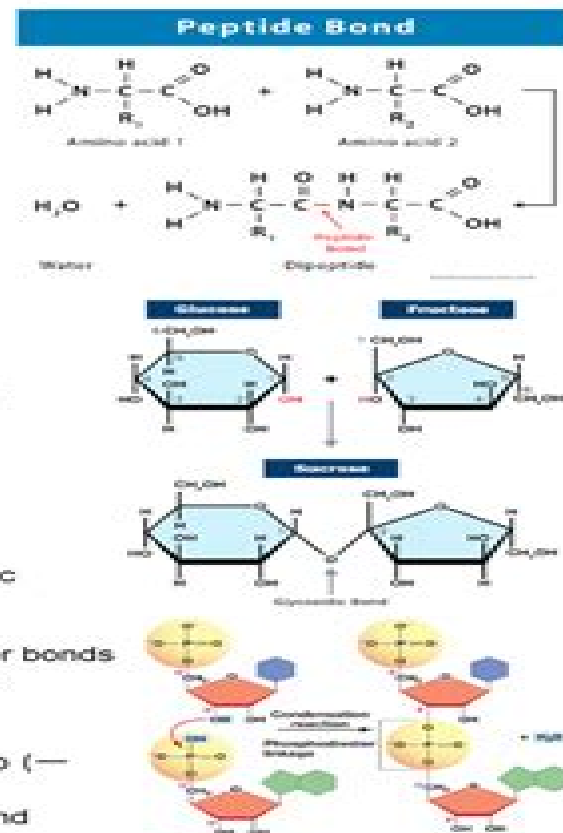
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##### — Identify monomers and linkages in biological molecules

- Amino Acids → Proteins / Polypeptides
  - AA residues are linked together via amide bonds (called peptide bonds)
- Carbohydrates / Monosaccharides → Polysaccharides
  - Monosaccharide residues are linked together via glycosidic bonds
- Nucleotides → Nucleic Acids
  - Nucleotide residues are linked together via phosphodiester bonds

##### — Distinguish main structural features of amino acids, carbohydrates, nucleotides, and lipids

- Amino Acids
  - Contain amino group ( $-\text{NH}_2$ ), carboxylic acid group ( $-\text{COOH}$ ), and an R group (side chain)
    - Under physiological conditions, the amino group and carboxylic acid group ionize
- Carbohydrates
  - Have formula:  $(\text{CH}_2\text{O})_n$ , where  $n \geq 3$



# Molecules In Living Systems A Biochemistry Module Teachers Guide

**E Durkheim**



## **Molecules In Living Systems A Biochemistry Module Teachers Guide:**

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