

Biomolecules Topic Overview



biomolecules text book.pdf
PDF

Biomolecules

Topic tree from the text book pdf attached here



The topic tree for "Biomolecules" based on the provided textbook PDF includes:

1. Carbohydrates

- Definition and general characteristics
- Classification: Monosaccharides, Oligosaccharides, Polysaccharides
- Reducing and non-reducing sugars
- Structures of glucose and fructose
- Disaccharides: Sucrose, Maltose, Lactose
- Polysaccharides: Starch, Cellulose, Glycogen
- Importance of carbohydrates

2. Proteins

- Amino acids: Classification, structures, and properties
- Peptide bond and protein structure (primary, secondary, tertiary, quaternary)
- Classification: Fibrous and Globular proteins
- Denaturation of proteins

3. Enzymes

- Mechanism of enzyme action
- Classification of enzymes
- Specificity of enzymes

4. Vitamins

- Definition and importance
- Classification: Fat-soluble and water-soluble vitamins
- Sources and deficiency diseases

5. Nucleic Acids

- DNA and RNA structure
- Nucleotides and nucleosides
- Functions of nucleic acids
- Types of RNA (mRNA, rRNA, tRNA)

6. Hormones

- Definition and chemical nature
- Roles of hormones in the body

Each section contains subtopics that explain the characteristics, classification, and roles of the biomolecules in biological systems.

ChatGPT can make mistakes. Check important info.