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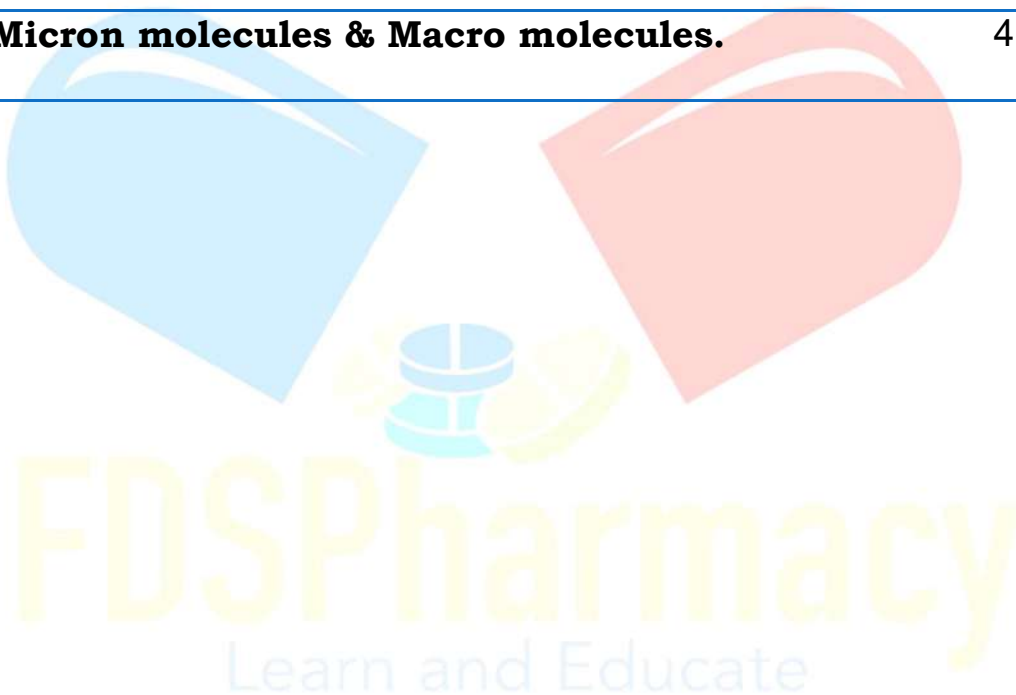
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Diploma in Pharmacy 2nd Year
Biochemistry & Clinical Pathology
Important Questions
Chapter 1 : Introduction to Biochemistry

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Chapter 1

Introduction to Biochemistry

IMPORTANT Questions

Q1. Describe the term Biochemistry ? Write the scope of Biochemistry.

Ans. Bio : living organisms

- **Chemistry :** chemistry
- Also called as chemistry of life/ living cells.
- Biochemistry involves the study of chemistry of life.
- The term biochemistry was introduced by Carl Neuberg in 1903.
- Which specialises in the chemical process and chemical transformation in living organisms.
- It lies between Biology and Chemistry that studies complex chemical rxn chemical structure giving rise to life.
- It deals with chemical basis of life in plants and animals.
- It relies on basic laws of chemistry.
- Like growth, reproduction, metabolism, response towards stimuli etc.

Defination

- The chemistry of life.
- The science concerned with the chemical basis of life.
- The science concerned with the various molecular that occurs in living cells and organisms and their chemistry reaction.

Scope of bio chemistry in pharmacy

Various scope of Biochemistry

- Bio-Chemical Test
 - The Half-life
 - Drug Constitution
 - Drug Storage
 - Drug Metabolism
- ⇒ **Bio-Chemical Test :** These tests help fix the specific half life or date of expiring of drugs.
- ⇒ **The half life :** This is a test done on Bio-Chemical drugs to know how long a drug is stable when kept at so & So Temperature.
- ⇒ **Drug Constitution :** Bio Chemistry gives an idea of the constitution of the drug.
- It chance of dehydration with vary into Temperature etc.
 - How modification in the medicinal chemistry helps to improve efficiency minimize the side effects.
- ⇒ **Drug Storage :** The storage condition required can be estimated by the Bio-Chemical Test for example many enzymes.
- Hormones are stored for dispensing.
 - These get deteriorated over time due to temperature or oxidation contamination & also due to improve storage.
- ⇒ **Drug Metabolism :** It gives an idea of how drug molecules are metabolised by many biochemical reaction in the presence of enzymes.
- This helps to avoid drug which have a poor metabolism.

Q2. Define Micro molecules & Macro molecules.

Ans.

Micromolecules

- Micromolecules are small organic molecules present in the cytosol of a living cell.
- No. of these molecules in a cell is around 100-200.
- Some common examples of micromolecules are amino acids, nucleotides, sugar, & their phosphorylated derivatives.
- Most of these molecules are water soluble, polar, are charged and present in micromolar to millimolar concentration.

Macromolecules

- The macromolecules have large molecular weight and are formed by polymerization of monomer units.
- Example polysaccharides (starch) are formed by polymerization of monosaccharides units.
- **Protein** : are formed by polymerization of amino acids.
- **Lipids** : are formed by polymerization of fatty acids.
- **DNA & RNA** : are formed by polymerization of nucleotides units.

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