

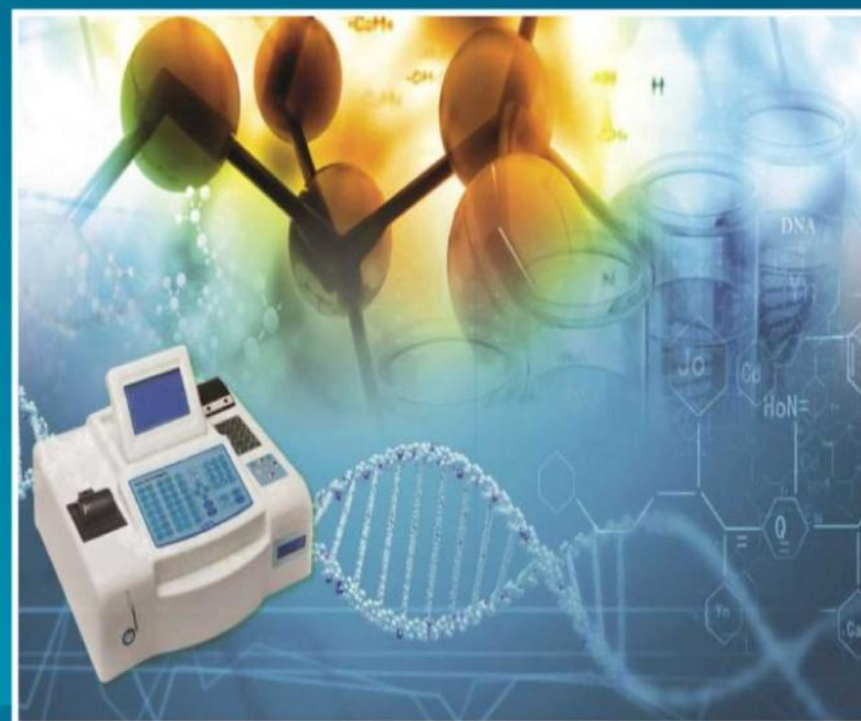
BASIC AND CLINICAL BIOCHEMISTRY

First Edition

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Basic and Clinical Biochemistry



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Preface

This book is too guide the students to learn more about the Biochemistry. The present book which provides a balanced approach to the students to get knowledge about the metabolism and biological significance of the food which we consume on day today life.

We are very much thankful to Thanuj International Publishers who readily accept and publish this subject.

Ms KALAIVANI P

Ms. ISHWARYA J

Mrs. LAVANYA G

BASIC AND CLINICAL BIOCHEMISTRY

UNIT I

Biomolecules -Carbohydrate – General properties, function, structure, classification– monosaccharides (Glucose, Fructose, Galactose), Oligoaccharides (Sucrose, Maltose, Lactose) and polysaccharides (Starch, Glycogen,) and biological significance. Lipids – General properties, functions, structure, classification (Simple, Derived and Complex), Cholesterol, LDL, HDL – biological significance.

UNIT II

Biomolecules - Amino acids – General properties, functions, structure, classification and biological significance. Proteins– General structure, Properties, functions, classification and biological significance.

UNIT III

Disorders of Metabolism: Disorders of carbohydrate metabolism: diabetes mellitus, hypoglycaemia, hyper glycaemia and galactosemia. Disorders of lipid metabolism: hyperlipidemia, hypercholesterolemia.

UNIT IV

Disorders of Metabolism: Disorders of amino acid metabolism: alkaptonuria, phenylketonuria, tyrosinemia.

UNIT V

Evaluation of organ function tests: Assessment and clinical manifestations of renal, hepatic function test. Diagnostic enzymes: Principles of diagnostic enzymology. Clinical significance of aspartate aminotransferase, alanine aminotransferase and lactate dehydrogenase.