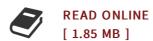




## Fundamentals of Biochemistry (M.E.), Revised Edition

By Nitin Jain, Dr. J.L. Jain, Dr. Sunjay Jain

S. Chand & Company Ltd, 2014. Softcover. Book Condition: New. 5th or later edition. CONTENTS: Part A: PREFATORY: I. Introduction: 1. Definition 2. Historical Resume 3. Biochemistry as Molecular Logic of Living Organisms 4. Nature 5. Axioms of Living Matter 6. Major Organic Compounds of Animate Objects 7. The Scientific Method of Approach 8. Importance 9. Literature II. Water: The Solvent of Life: 1. General Considerations 2. Physical Properties of Water 3. Structure of Water Molecule 4. Weak Interactions in Aqueous Solutions: i. Hydrogen Bonding between Water Molecules ii. Hydrogen Bonding between Water and Solute Molecules iii. Interaction between Water and Charged Solutes iv. Interaction between Water and Nonpolar Gases v. Interaction between Water and Nonpolar Compounds vi. Van der Waals Interactions 5. Role of Noncovalent Interactions 6. Role of Water in Life III. pH and Buffers: 1. Ionization of Water, Weak Acids and Weak Bases 2. The pH Scale 3. Bronsted-Lowry Concept of Acids and Bases: i. Strong and Weak Acids ii. Ionization of Weak Acids iii. Titration of a Weak Acid by a Strong Base 3. Buffers: i. Henderson-Hasselbalch Equation 4. Biological Buffer Systems: i. The Phosphate Buffer...



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