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Section III covers the amino acids, their metabolic fates, certain features of protein catabolism, and the biochemistry of the porphyrins and bile pigments. Section IV describes the structure and function of nucleotides and nucleic acids, DNA replication and repair, RNA synthesis and modification, protein synthesis, the principles of recombinant DNA technology, and new understanding of how gene expression is regulated. Section V deals with aspects of extracellular and intracellular communication. Section VI includes fifteen special topics, ranging from nutrition, digestion and absorption to the biochemistry of aging New to this edition: New chapters on Aging, Cancer, and Clinical Chemistry Every chapter has been updated to reflect the latest advances in knowledge and technology Each chapter now begins with a statement of objectives, followed by a brief discussion of the biomedical importance of topics discussed within the chapter 250 multiple-choice questions to test your knowledge and comprehension Increased number of tables that encapsulate important information, such as vitamin and mineral requirements This site comply with DMCA digital copyright. We do not store files not owned by us, or without the permission of the owner. We also do not have links that lead to sites DMCA copyright infringement. If You feel that this book is belong to you and you want to unpublish it, Please Contact us. 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Some of the chapters in book are as follows: Biochemistry & Medicine Water & pH Amino Acids & Peptides Proteins: Determination of Primary Structure Proteins: Higher Orders of Structure Proteins: Myoglobin & Hemoglobin Enzymes: Mechanism of Action Enzymes: Kinetics Enzymes: Regulation of Activities Bioinformatics & Computational Biology Bioenergetics: The Role of ATP Biologic Oxidation The Respiratory Chain & Oxidative Phosphorylation Carbohydrates of Physiologic Significance Lipids of Physiologic Significance Overview of Metabolism & the Provision of Metabolic Fuels The Citric Acid Cycle: The Catabolism of Acetyl-CoA Glycolysis & the Oxidation of Pyruvate Metabolism of Glycogen Gluconeogenesis & the Control of Blood Glucose The Pentose Phosphate Pathway & Other Pathways of Hexose Metabolism Oxidation of Fatty Acids: Ketogenesis Biosynthesis of Fatty Acids & Eicosanoids Metabolism of Acylglycerols & Sphingolipids Lipid Transport & Storage Cholesterol Synthesis, Transport, & Excretion Biosynthesis of the Nutritionally Nonessential Amino Acids Catabolism of Proteins & of Amino Acid Nitrogen Catabolism of the Carbon Skeletons of Amino Acids Conversion of Amino Acids to Specialized Products Porphyrins & Bile Pigments Nucleotides Metabolism of Purine & Pyrimidine Nucleotides Nucleic Acid Structure & Function DNA Organization, Replication, & Repair RNA Synthesis, Processing, & Modification Protein Synthesis & the Genetic Code Regulation of Gene Expression Molecular Genetics, Recombinant DNA, & Genomic Technology Membranes: Structure & Function The Diversity of the Endocrine System Hormone Action & Signal Transduction Nutrition, Digestion, & Absorption Micronutrients: Vitamins & Minerals Free Radicals and Antioxidant Nutrients Intracellular Traffic & Sorting of Proteins Glycoproteins The Extracellular Matrix Muscle & the Cytoskeleton Plasma Proteins & Immunoglobulins Hemostasis & Thrombosis Red & White Blood Cells Metabolism of Xenobiotics Biochemical Case Histories Read more- Dhingra ENT PDF Book Download Free 6th EditionClick here if you need to check full syllabus of Biochemistry in First year of MBBS. About the Authors: Robert K. Murray, MD, PhD David A. Bender, PhD Kathleen M. Botham, PhD, DSc Peter J. Kennelly, PhD Victor W. Rodwell, PhD P. Anthony Weil, PhD Co-Authors: Daryl K. Granner, MD Peter L. Gross, MD, MSc, FRCP(C) Frederick W. Keeley, PhD Overview Although the most commonly used book remains U Satyanarayana, Harper's Illustrated Biochemistry has set some real standards. It has far better illustrated diagrams and flowcharts, much better explanations and yes, it is recommended book if you are or will be preparing for NEET PG exam after MBBS. Some of the new features of medical interest as per book include: Influence of the Human Genome Project on various biomedical fields. Re-write of the use of enzymes in medical diagnosis. New material on computer-aided drug discovery. Compilation of some conformational diseases. New material on advanced glycation end-products and their importance in diabetes mellitus. New material on the attachment of influenza virus to human cells. Some major challenges facing medicine. Suggestions to those studying Biochemistry in First Year MBBS are as follows. This subject is kind of mug-up everything, except some important topics that are important clinically. Such topics are must, and examples include Glucose Tolerance Test. Those preparing for Post Graduation will have to read everything though. 5-year question papers for your university are enough, you can try to do 10 years if you want. Focus on other subjects rather than all concentration on Biochemistry. Physiology and Anatomy are going to help you more than learning biochemistry. Check out our guide on Blood Test Interpretation- Normal Values and Red Range. Harper's Illustrated Biochemistry PDF Book Download You can download the Harper's Illustrated Biochemistry book by link given below. If the link is not working, do let us know using the comments section, we will readily update it. If you are unable to locate the links, please refresh the page. 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