

Chapter 2 - Biochemistry Review and Overview

1. Chemical Reactions

the process involves the making or breaking of bonds between atoms and a change in chemical energy

- endergonic is absorbing energy
- exergonic is releasing energy
 - a. Synthesis Reaction occurs when atoms, ions, or molecules combine in order to make a larger molecule
 - i. $A + B \rightarrow AB$
 - ii. anabolism is the synthesis of molecules that are in the cell
 - b. Decomposition Reactions occurs when a molecule is split into smaller molecules, ions, or atoms
 - i. $AB \rightarrow A + B$
 - ii. Catabolism is the decomposition reaction in a cell
 - c. Exchange Reaction occurs when the atoms are exchanged with each other and is part synthesis and part decomposition
 - i. $AB + CD \rightarrow AC + BD$

Chemical reactions can readily go in either directions and each direction might need different conditions to go through with it

2. Biological Molecules

- a. organic compounds always contain carbon and hydrogen
 - i. structurally complex molecules
 - ii. Organic compounds commonly contain hydrogen, oxygen, and/or nitrogen in addition to carbon
 - iii. the chain of carbon is called a carbon skeleton
 - iv. Functional groups bond to carbon skeletons and are responsible for most of the chemical properties of a particular organic compound
- b. inorganic compounds most likely lack the carbon
 - i. small and simple

3. Carbohydrates

- serves as cell structures and cellular energy sources
- includes sugar and starches
- consist of carbon, hydrogen, and oxygen with the formula $(CH_2O)_n$
 - a. Monosaccharides
 - i. simple sugars with three to seven carbon atoms, building blocks
 - ii. the common ones include glucose, fructose, and deoxyribose
 - b. Disaccharides
 - i. they are formed when two monosaccharides link together by the process of dehydration synthesis (water molecule is formed)
 - c. Polysaccharides
 - i. consist of tens or hundreds of monosaccharides joined through dehydration synthesis
 - ii. glucose forms starch, glycogen, and cellulose because of different bonds

Microbiology Chapter 2 Study Questions

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Textbook of Microbiology and Immunology - E-book Subhash Chandra Parija,2016-09-12 The third edition of the Textbook of Microbiology and Immunology provides fully updated text on the various aspects of microbiology and infectious diseases which makes it the most authoritative and informative text in medical microbiology It is a must have book for preparing MBBS examination as well as the postgraduate entrance tests Clear succinct and comprehensive information on various aspects of microbiology and immunology Thoroughly revised information with tables and figures for better understanding Multicolor book designed in attractive student friendly format with color photographs and illustrations to aid better understanding Case studies at the end of chapters for self assessment Special emphasis on emerging and re emerging pathogens and antimicrobial resistance Covers recent advances in molecular diagnosis and vaccines Additional emphasis on clinical microbiology with special focus on syndromic approach to infectious diseases Online study materials include Key Facts Study Questions Multiple Choice Questions and PowerPoint presentation of each topic *Infection Control and Management of Hazardous Materials for the Dental Team* Chris H. Miller, BA, MS, PhD,2013-02-08 Emphasizing patient safety and infection prevention in the dental office Infection Control and Management of Hazardous Materials for the Dental Team 5th Edition covers everything from basic concepts in microbiology to protocols for clinical asepsis Clear step by step instructions make it easy for you to perform safety procedures and use the supplies and equipment needed to prevent the spread of infectious disease New to this edition are full color photographs and four new chapters on emerging topics Written by oral biology and infection control expert Chris Miller this resource is a must read for every member of the dental team Comprehensive coverage follows dental assisting and dental hygiene curricula requirements for infection control ensuring that you learn essential principles and procedures for clinical competence Easy to follow step by step procedures are provided for skills that dental team members must master each presented with a goal materials chronological steps and rationales for the performance of each step Key terms begin each chapter and are highlighted within text discussions and defined in a back of book glossary Summary tables and boxes make study easier by highlighting key concepts and procedures Review questions ensure your comprehension of the material with 5 to 20 multiple choice questions at the end of each chapter Practical appendices offer easy access to the most significant regulatory agency rules and recommendations for infection control Student resources on the Evolve companion website include practice exercises plus review questions and quizzes NEW Full color photographs show the latest equipment supplies and procedures and accurately depict concepts in microbiology and the nature of infectious disease Four NEW chapters cover changing and emerging topics and trends in

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Principles of Modern Microbiology Mark Wheelis, 2008 This text balances brevity and clarity in a condensed introduction to microbiology It contains a manageable amount of detail and yet covers the full range and diversity of the microbial world

ESSENTIAL PRACTICAL HANDBOOK OF CELL BIOLOGY & GENETICS, BIOMETRY & MICROBIOLOGY DEBARATI DAS, 2017-01-02 The book is intended to serve as a practical resource for microbiology genetics and biometry The book helps to gain conceptual and application of knowledge on such subjects and provides an engaging entree into the related topics addressed in different university syllabus It also serves as a practical guide for both academic and industrial labs where they want to start

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