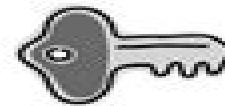


Biochemistry Study Guide



Directions: Answer the following questions in order to help you prepare for your test. The notes you will need are:

- 1) Carbon Compounds
- 2) Chemical Reaction and Enzymes.
- 3) Water and pH

1. List all 5 functions of proteins.
2. What are nucleic acids?
3. List three examples of nucleic acids.
4. What are the three parts of a nucleotide?

5. Define chemical reaction.

6. In the following equation: $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$ identify the products and the reactants.
 - a. Products=
 - b. Reactants=
 - c. In a chemical reaction, the atoms are _____, not created or destroyed.
 - d. In a chemical reaction, energy can be released as what three things?

7. What is activation energy?

8. What two functions (jobs) do catalysts and enzymes serve?

9. What is an active site?

10. What 3 conditions can affect the rate at which enzymes work?

11. What suffix do all enzymes end in (which three letters)? _____

12. Describe how an enzyme works like a lock and key.

13. How is the induced fit theory different than the lock and key theory?

Biochemistry Study Guide

Milin Kurup

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Absolute, Ultimate Guide to Principles of Biochemistry Study Guide and Solutions Manual David L. Nelson, Michael M. Cox, 2017-01-01 Absolute Ultimate Guide to Principles of Biochemistry Study Guide and Solutions

Manual Study Guide Marcy Osgood, Karen Ocorr, 1997 **Biochemistry Basics** Milin Kurup, 2020-12-21 The Biochemistry Basics Biochemistry and Molecular Biology Study Guide was created by a renowned student from the University of Florida and includes all notes diagrams and study guides for all the important subjects covered in Biochemistry Molecular Biology Genetics and Microbiology Milin Kurup is a double major in B.S. Microbiology and Cognitive and Behavioral Neuroscience student from the University of Florida In addition to his degree Milin is a UF Biochemistry BCH4024 Study Instructor Group Leader a Microbiology MCB3020L Teaching Assistant a Genetics PCB4522 Teaching Assistant and a Neuroscience Research Assistant at the University of Florida While many of these classes cover high density material this study guide hopes to organize and condense the whole curriculum into short page review sheets In the author's time of instruction and study he organized a collection of all reactions mechanisms processes and concepts all studied in Biochemistry Genetics and Microbiology Overall this biochemistry study guide covers topics such as biomolecule structures Protein Carbohydrate Nucleic Acids and Lipids biomolecules function biomolecule metabolism Protein Metabolism Carbohydrate Metabolism Nucleic Acid Metabolism and Lipid Metabolism physiological biochemical relationships genetics and biological microbiological biochemical processes Overall the guide is organized into 13 page summaries of each specific topic and acts as a study guide for those who hope to study individual concepts in detail All sections include detailed diagrams color coded notes labeled illustration and detailed descriptions for effective comprehension In addition to class studies many students also have used this study guide as an MCAT review guide The short and condensed review pages have helped many students organize and categorize important topics as they continue to study for the MCAT Ultimately this organized set can be extremely useful for students review especially before class exams school projects standardized test and much more

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