

Assessment

Chapter Test B**Biochemistry**

Write the correct letter in the blank before each numbered term.

- | | |
|--------------------------------|--|
| _____ 1. nucleotide | a. forms large molecules from smaller ones |
| _____ 2. hydrolysis | b. fatty acid linked to alcohol chain |
| _____ 3. steroid | c. monomer of many polysaccharides |
| _____ 4. amino acid | d. component of many lipids |
| _____ 5. condensation reaction | e. monomer of nucleic acids |
| _____ 6. glucose | f. lipid not composed of fatty acids |
| _____ 7. wax | g. monomer of proteins |
| _____ 8. fatty acid | h. breaks large molecules into smaller ones |
| _____ 9. functional group | i. influences the characteristics of molecules |

In the space provided, write the letter of the term or phrase that best completes each statement.

- _____ 10. The presence of four electrons in the outermost energy level of a carbon atom enables
- carbon atoms to form four covalent bonds with atoms of other elements.
 - carbon atoms to form covalent bonds with other carbon atoms.
 - carbon atoms to form double bonds with other atoms.
 - All of the above
- _____ 11. The breakdown of polymers into monomers occurs through a process known as
- hydrolysis.
 - condensation.
 - dissociation.
 - removal of a functional group.
- _____ 12. Organic molecules that catalyze reactions in living systems are
- phospholipids.
 - enzymes.
 - polysaccharides.
 - steroids.
- _____ 13. Lipids are good energy-storage molecules because
- they can absorb a large amount of energy while maintaining a constant temperature.
 - they have many carbon-hydrogen bonds.
 - they are composed of many simple sugars.
 - they cannot be broken down by enzymes.

Modern Biology Chapter 1test

Henry Smith Williams



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Modern Statistics for Modern Biology SUSAN. HUBER HOLMES (WOLFGANG.), Wolfgang Huber, 2018

Mathematical Concepts and Methods in Modern Biology Raina Robeva, Terrell Hodge, 2013-02-26 Mathematical Concepts and Methods in Modern Biology offers a quantitative framework for analyzing predicting and modulating the behavior of complex biological systems The book presents important mathematical concepts methods and tools in the context of essential questions raised in modern biology Designed around the principles of project based learning and problem solving the book considers biological topics such as neuronal networks plant population growth metabolic pathways and phylogenetic tree reconstruction The mathematical modeling tools brought to bear on these topics include Boolean and ordinary differential equations projection matrices agent based modeling and several algebraic approaches Heavy computation in some of the examples is eased by the use of freely available open source software Features self contained chapters with real biological research examples using freely available computational tools Spans several mathematical techniques at basic to advanced levels Offers broad perspective on the uses of algebraic geometry polynomial algebra in molecular systems biology

Algebraic and Discrete Mathematical Methods for Modern Biology Raina Robeva, 2015-05-09 Written by experts in both mathematics and biology Algebraic and Discrete Mathematical Methods for Modern Biology offers a bridge between math and biology providing a framework for simulating analyzing predicting and modulating the behavior of complex biological systems Each chapter begins with a question from modern biology followed by the description of certain mathematical methods and theory appropriate in the search of answers Every topic provides a fast track pathway through the problem by presenting the biological foundation covering the relevant mathematical theory and highlighting connections between them Many of the projects and exercises embedded in each chapter utilize specialized software providing students with much needed familiarity and experience with computing applications critical components of the modern biology skill set This book is appropriate for mathematics courses such as finite mathematics discrete structures linear algebra abstract modern algebra graph theory probability bioinformatics statistics biostatistics and modeling as well as for biology courses such as genetics cell and molecular biology biochemistry ecology and evolution Examines significant questions in modern biology and their mathematical treatments Presents important mathematical concepts and tools in the context of essential biology Features material of interest to students in both mathematics and biology Presents chapters in modular format so coverage need not follow the Table of Contents Introduces projects appropriate for undergraduate research Utilizes freely accessible software for visualization simulation and analysis in modern biology Requires no calculus as a prerequisite Provides a complete Solutions Manual Features a companion website with supplementary resources

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