

SECTION 3: BIODIVERSITY

MOLECULES OF LIFE

SYNOPSIS REVIEW: Distinguish between the terms in each of the following pairs of terms.

1. monosaccharide polysaccharide _____

2. hydrophilic hydrophobic _____

3. nucleotide nucleic acid _____

MULTIPLE CHOICE Write the correct letter in the blank.

_____ 1. Glycogen, starch, and cellulose are

- a. monosaccharides b. disaccharides c. polysaccharides d. simple sugars

_____ 2. The different shapes and functions of different proteins are determined by

- a. the R groups of the amino acids they contain c. the carboxyl groups of the amino acids they contain
b. the amino groups of the amino acids they contain d. whether or not they contain any amino acids

_____ 3. Most enzymes

- a. are changed by the reactions they catalyze c. strengthen the chemical bonds in their substrates
b. increase the activation energy of the reactions they catalyze d. are sensitive to changes in temperature or pH

_____ 4. The large numbers of carbon-hydrogen bonds in lipids

- a. make lipids polar c. allow lipids to dissolve in water
b. store more energy than the oxygen atoms bound to the carboxyl groups at the end of the lipid d. are bound to the carboxyl groups at the end of the lipid

_____ 5. The most important functions of nucleic acids is

- a. catalyzing chemical reactions c. storing energy
b. forming a barrier between the inside and outside of a cell d. storing information needed for forming and growing organisms

Modern Biology Study Section Answers

SA Adler



Modern Biology Study Section Answers:

Biology for Students Mohammad Mehdi Ommati, 2025-05-20 *Biology for Students* is an essential guide for understanding the core principles of biology from fundamental cellular processes to advanced biological research. This book is structured to help students grasp key biological concepts while equipping them with the skills needed for scientific research and academic writing. Key Features: Core Biological Concepts: Covers cell biology, genetics, evolution, and ecology, providing a strong foundation in life sciences. Advances in Biological Research: Explores modern topics such as cancer systems biology and the impact of information systems in research. Scholarly Writing and Publishing: Offers practical guidance on research techniques, manuscript writing, and publishing strategies. Student Friendly Features: Includes vocabulary lists, comprehension exercises, reference materials, and appendices for deeper learning. **Department of Energy National Laboratory**

Cooperative Research Initiatives Act United States. Congress. Senate. Committee on Energy and Natural Resources.

Subcommittee on Energy Research and Development, 1988

Teacher's Guide to the Modern Biology Program James

Howard Otto, Albert Towle, Elizabeth H. Crider, 1965

The NIH Record, 1991

Modern Cell Biology Kuo-Tsing

Hsieh, 1975

Cumulated Index to the Books, 1969

The Cumulative Book Index, 1969 A world list of books in the

English language

Secondary Education Journal, 1980

Books in Print Supplement, 2002

Life: The Science of

Biology David E. Sadava, H. Craig Heller, Gordon H. Orians, William K. Purves, David M. Hillis, 2012-12-10 From its first edition

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understand not just what we know, scientific facts, but how we know it, the experimental process that leads to their discovery.

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responding to changes in biology education.

Sociology and Modern Social Problems Charles Abram Ellwood, 1910

Modern Differential Equations Martha L. Abell, James P. Braselton, 2001

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The Modern Review Ramananda Chatterjee, 1925 Includes section Reviews and notices of books *Chapters on Evolution* Andrew Wilson, 1883 *The Lancet*, 1911 **The Literary Digest International Book Review** Clifford Smyth, 1923 [The Journal of Education](#), 1908 **Modern Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-01-01 **The Philosophical Review** Jacob Gould Schurman, James Edwin Creighton, Frank Thilly, Gustavus Watts Cunningham, 1918 An international journal of general philosophy *Geology* Edward C. Gruber, 1963

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