

SECTION 1: BIODIVERSITY

MOLECULES OF LIFE

SYNONYMOUS REVISION 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 their oxygen, oxygen bonds to other oxygen molecules **d. are found in the carboxyl groups of 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 related to forming and growing organisms**

Modern Biology Section 26 Study Guide

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Table of Contents Modern Biology Section 26 Study Guide

1. Understanding the eBook Modern Biology Section 26 Study Guide
 - The Rise of Digital Reading Modern Biology Section 26 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Section 26 Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Modern Biology Section 26 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Section 26 Study Guide
 - Personalized Recommendations
 - Modern Biology Section 26 Study Guide User Reviews and Ratings
 - Modern Biology Section 26 Study Guide and Bestseller Lists

5. Accessing Modern Biology Section 26 Study Guide Free and Paid eBooks
 - Modern Biology Section 26 Study Guide Public Domain eBooks
 - Modern Biology Section 26 Study Guide eBook Subscription Services
 - Modern Biology Section 26 Study Guide Budget-Friendly Options
6. Navigating Modern Biology Section 26 Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Modern Biology Section 26 Study Guide Compatibility with Devices
 - Modern Biology Section 26 Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Biology Section 26 Study Guide
 - Highlighting and Note-Taking Modern Biology Section 26 Study Guide
 - Interactive Elements Modern Biology Section 26 Study Guide
8. Staying Engaged with Modern Biology Section 26 Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Biology Section 26 Study Guide
9. Balancing eBooks and Physical Books Modern Biology Section 26 Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Biology Section 26 Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modern Biology Section 26 Study Guide
 - Setting Reading Goals Modern Biology Section 26 Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modern Biology Section 26 Study Guide
 - Fact-Checking eBook Content of Modern Biology Section 26 Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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