## Answer Key

#### Unit 1 Biochemistry

#### Answers to Unit 1 Preparation Questions Assessing Student Readiness

#### (Student textbook pages 4-7)

- Sketches should depict a central atomic nucleus surrounded by four valence electrons (or six electrons in total), or six neutrons and six peotons within the nucleus.
- 2. b.
- 36. 10
- 4. metal, non-metal ion
- Since the atoms in a glucose molecule share valence electrons, the bonds between these atoms must be covalent.
  - b. Glucose is a stable molecule because its covalent bonds are stable and strong.
- a. water—molecular, atoms (both non-metals) are joined by covalent bonds
  - carbon dioxide—molecular, atoms (both non-metals) are joined by covalent bonds
  - c. glucose—molecular, atoms (two non-metals and uncharged hydrogen) are joined by covalent bonds
  - d. sodium chloride—ionic, ions (a metal and a non-metal) joined by an ionic bond
  - calcium phosphate—ionic, ions (a metal and a polyatomic ion) joined by ionic bonds
  - methane—molecular, atoms (a non-metal and uncharged hydrogen) joined by covalent bonds
  - g. oxygen—molecule or molecular element, atoms joined by double covalent bond, but not a molecular compound because it is formed from only one element (two oxygen atoms)
  - ammonia—molecular, atoms (a non-metal and uncharged hydrogen) joined by covalent bonds
- 7. a. chloride
  - b. sulphate/sulfate
  - c. magnesium ion
  - d. copper (II) ion

- 8. a. OHT
  - b. 53-
  - C. AP+
  - di. Fe<sup>3+</sup>
- 9. H<sub>2</sub>O or water
- 10. water → hydrogen + oxygen
- 11. d
- sodium hydroxide + hydrochloric acid →

water + sodium chloride

- a. Since the pH of the solution increased, the student must have added a base to the solution.
  - b. One of: When the second substance was added, it released hydroxide ions (OH\*), which combined with protons (H\*) to produce water. The second substance accepted protons (H\*) from the solution.
- 14. a. decomposition
  - b. neutralization
  - c. decomposition
  - d. synthesis
  - e. neutralization
  - f. synthesis
  - q. decomposition
  - h. synthesis
  - L synthesis
  - j. synthesis
- 15. pH 7.
- 16. €
- One of: enzymes, cell structure, membrane transport, muscle
- 18. A molecule is a substance composed of two or more atoms that are bonded together covalently. A macromolecule is a large, complex molecule. Usually, the subunits of a macromolecule are small molecules bonded together.
- An enzyme is a macromolecule that speeds up chemical reactions.
- 20. c
- 21.0
- 22. b

# **Review Unit 1 Biochemistry Answers**

**M** Mosston

#### **Review Unit 1 Biochemistry Answers:**

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molecules regulation of enzymes and reaction sequences lab techniques for purification of proteins and nucleic acids and lab techniques of molecular genetics Also each unit contains more applications to biological systems The text provides a well organized and rigorous approach suitable for classroom use or self instruction Each unit begins with a 1 to 2 page presentation of basic concepts followed by about 20 questions and problems with sample responses Self tests appear after every 2 to 3 units and there is a cumulative self test at the end of the book

Nuclear Science Abstracts ,1973-07

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#### **Table of Contents Review Unit 1 Biochemistry Answers**

- 1. Understanding the eBook Review Unit 1 Biochemistry Answers
  - The Rise of Digital Reading Review Unit 1 Biochemistry Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Review Unit 1 Biochemistry Answers
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - o Features to Look for in an Review Unit 1 Biochemistry Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Review Unit 1 Biochemistry Answers
  - Personalized Recommendations
  - Review Unit 1 Biochemistry Answers User Reviews and Ratings
  - Review Unit 1 Biochemistry Answers and Bestseller Lists

- 5. Accessing Review Unit 1 Biochemistry Answers Free and Paid eBooks
  - Review Unit 1 Biochemistry Answers Public Domain eBooks
  - Review Unit 1 Biochemistry Answers eBook Subscription Services
  - Review Unit 1 Biochemistry Answers Budget-Friendly Options
- 6. Navigating Review Unit 1 Biochemistry Answers eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Review Unit 1 Biochemistry Answers Compatibility with Devices
  - Review Unit 1 Biochemistry Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Review Unit 1 Biochemistry Answers
  - Highlighting and Note-Taking Review Unit 1 Biochemistry Answers
  - Interactive Elements Review Unit 1 Biochemistry Answers
- 8. Staying Engaged with Review Unit 1 Biochemistry Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Review Unit 1 Biochemistry Answers
- 9. Balancing eBooks and Physical Books Review Unit 1 Biochemistry Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Review Unit 1 Biochemistry Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Review Unit 1 Biochemistry Answers
  - Setting Reading Goals Review Unit 1 Biochemistry Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Review Unit 1 Biochemistry Answers
  - Fact-Checking eBook Content of Review Unit 1 Biochemistry Answers
  - 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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