

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Which of the following statements about the atom $^{12}_6\text{C}$ is FALSE? 1) _____
- It has 12 neutrons in its nucleus.
 - It has 6 protons in its nucleus.
 - Its atomic weight is 12.
 - It has 6 electrons orbiting the nucleus.
 - Its atomic number is 6.
- Table 2.1
- | | | |
|-------------------|-------------------|----------------|
| $^{16}_8\text{O}$ | $^{12}_6\text{C}$ | ^1_1H |
|-------------------|-------------------|----------------|
- 2) Using the information in Table 2.1, calculate the molecular weight of ethanol, $\text{C}_2\text{H}_5\text{OH}$. 2) _____
- 33
 - 96
 - 46
 - 34
 - The answer cannot be determined.
- 3) Antacids neutralize acid by the following reaction. Identify the salt in the following equation: 3) _____
- $$\text{Mg}(\text{OH})_2 + 2\text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2\text{O}$$
- H_2O
 - MgCl_2
 - HCl
 - $\text{Mg}(\text{OH})_2$
 - None of the answers is correct.
- 4) Which of the following statements is FALSE? 4) _____
- Water freezes from the top down.
 - Salts readily dissolve in water.
 - Water molecules are formed by hydrolysis.
 - Water is a part of a dehydration synthesis reaction.
 - Water is a polar molecule.
- 5) Which of the following is the type of bond holding K^+ and I^- ions in KI ? 5) _____
- hydrogen bond
 - ionic bond
 - covalent bond
- 6) Which of the following is the type of bond between molecules of water in a beaker of water? 6) _____
- hydrogen bond
 - covalent bond
 - ionic bond
- 7) What is the type of bond holding hydrogen and oxygen atoms in the H_2O molecule? 7) _____
- hydrogen bond
 - ionic bond
 - covalent bond
- 8) Identify the following reaction: $\text{Glucose} + \text{Fructose} \rightarrow \text{Sucrose} + \text{Water}$ 8) _____
- reversible reaction
 - exchange reaction
 - dehydration synthesis reaction
 - hydrolysis reaction

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Patrick Vollmar



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1. Understanding the eBook Microbiology Test Bank Questions Tortora 11th Edition
 - The Rise of Digital Reading Microbiology Test Bank Questions Tortora 11th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Test Bank Questions Tortora 11th Edition
 - 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 an Microbiology Test Bank Questions Tortora 11th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Test Bank Questions Tortora 11th Edition
 - Personalized Recommendations
 - Microbiology Test Bank Questions Tortora 11th Edition User Reviews and Ratings
 - Microbiology Test Bank Questions Tortora 11th Edition and Bestseller Lists
5. Accessing Microbiology Test Bank Questions Tortora 11th Edition Free and Paid eBooks

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 - Microbiology Test Bank Questions Tortora 11th Edition eBook Subscription Services
 - Microbiology Test Bank Questions Tortora 11th Edition Budget-Friendly Options
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 - Microbiology Test Bank Questions Tortora 11th Edition Compatibility with Devices
 - Microbiology Test Bank Questions Tortora 11th Edition Enhanced eBook Features
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 - Highlighting and Note-Taking Microbiology Test Bank Questions Tortora 11th Edition
 - Interactive Elements Microbiology Test Bank Questions Tortora 11th Edition
8. Staying Engaged with Microbiology Test Bank Questions Tortora 11th Edition
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbiology Test Bank Questions Tortora 11th Edition
9. Balancing eBooks and Physical Books Microbiology Test Bank Questions Tortora 11th Edition
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbiology Test Bank Questions Tortora 11th Edition
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Microbiology Test Bank Questions Tortora 11th Edition
- Setting Reading Goals Microbiology Test Bank Questions Tortora 11th Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microbiology Test Bank Questions Tortora 11th Edition
- Fact-Checking eBook Content of Microbiology Test Bank Questions Tortora 11th Edition
 - 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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