

Honour Chemistry Practice Test: Unit 1: Basic Chemistry

Part A: Multiple Choice

(1 mark each)

- Choose the response that includes all the items listed below that are pure substances.
i. orange juice ii. steam iii. wine iv. oxygen v. vegetable soup
A. i, iii, v B. ii, iv C. i, iii, iv D. iv only E. All of them are pure.
- All of these statements describe properties of sodium. Which one describes a *physical* property of sodium?
A. Sodium's surface turns black when first exposed to air.
B. Sodium is a solid at 25°C and changes to a liquid when heated to 98°C.
C. When placed in water, sodium sizzles and a gas is formed.
D. When placed in contact with chlorine, sodium forms a compound that melts at 801°C.
E. Sodium is never found as the pure metal in nature.
- The diameter of an atom is approximately 1×10^{-8} cm. What is this diameter when expressed in nanometers?
A. 1×10^{-18} nm B. 1×10^{-15} nm C. 1×10^1 nm D. 1×10^{-10} nm E. 1×10^{-1} nm
- How many milliliters is 0.005 L?
A. 0.5 mL B. 5 mL C. 0.50 mL D. 0.000005 mL E. 200 mL
- After carrying out the operations $(99.9 + 0.573) \div 8.2$, how many significant figures are appropriate to show in the result?
A. 1 B. 2 C. 3 D. 4 E. 5
- Suppose a house has a floor area of 2,250 square feet. What is this area in units of cm^2 ($1 \text{ ft} = 30.48 \text{ cm}$)?
A. 2.42 cm^2 B. $2.09 \times 10^6 \text{ cm}^2$ C. $5.02 \times 10^4 \text{ cm}^2$ D. $6.86 \times 10^4 \text{ cm}^2$ E. 101 cm^2
- Table salt (sodium chloride) is 39.1% sodium. How many grams of salt contains 72.0 g of sodium?
A. 28.2 g salt B. 72.0 g salt C. 184 g salt D. 2,820 g salt E. 1.84×10^5 g salt
- Radio waves travel at the speed of light, which is 3.00×10^8 m/s. How many kilometers will radio messages to outer space travel in exactly one year (365 days)?
A. 9.46×10^{15} km B. 7.30×10^8 km C. 7.10×10^{10} km D. 9.46×10^{12} km E. 3.33×10^{15} km
- The scientist who determined the magnitude of the electric charge of the electron was
A. John Dalton B. Robert Millikan C. J. J. Thomson D. Henry Moseley E. Ernest Rutherford
- An atom of the isotope sulfur-31 consists of how many protons, neutrons, and electrons?
(p = proton, n = neutron, e = electron)
A. 15 p, 16 n, 15 e B. 16 p, 15 n, 16 e C. 16 p, 31 n, 16 e D. 32 p, 31 n, 32 e E. 16 p, 16 n, 15 e

Alberta Practice Unit Tests Chemistry

Michael Brown



Alberta Practice Unit Tests Chemistry :

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Table of Contents Alberta Practice Unit Tests Chemistry

1. Understanding the eBook Alberta Practice Unit Tests Chemistry
 - The Rise of Digital Reading Alberta Practice Unit Tests Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Alberta Practice Unit Tests Chemistry
 - 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 Alberta Practice Unit Tests Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Alberta Practice Unit Tests Chemistry
 - Personalized Recommendations
 - Alberta Practice Unit Tests Chemistry User Reviews and Ratings
 - Alberta Practice Unit Tests Chemistry and Bestseller Lists

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