

THE FOLLOWING QUESTIONS ARE PRACTICE QUESTIONS FOR THE CSN CHEMISTRY PLACEMENT EXAM

The chemistry placement test is used to assess your preparation for General Chemistry I, CHEM 121 at CSN. The test is a standardized test that will examine your knowledge of chemistry and basic mathematical skills. You will be provided scratch paper, a Periodic Table of the Elements and a nonprogrammable scientific calculator. The following sample questions are intended only as a guide to show you the relative level of difficulty and example topics covered in the Chemistry Placement Exam. The actual exam will have a time limit of 45 minutes to answer 44 multiple choice questions. Click the following link to view a [Periodic Table](#).

MULTIPLE CHOICE. Choose the single choice that best answers the question.

- 1) How many total atoms are in the formula



A) 12 B) 14 C) 9 D) 8

- 2) How many electrons are in Br^- ?

A) 4 B) 7 C) 36 D) 34

- 3) What are the coefficients for the following reaction when it is properly balanced?



A) 2, 3, 6, 1 B) 6, 1, 3, 2
C) 2, 3, 1, 6 D) 2, 1, 1, 3

- 4) Given that $4 \text{ NH}_3 + 5 \text{ O}_2 \rightarrow 4 \text{ NO} + 6 \text{ H}_2\text{O}$, when 4.50 mol of H_2O are formed, the amount of NO formed is

A) 3.00 mol B) 6.75 mol
C) 1.50 mol D) 4.50 mol

- 5) What type of a reaction occurs when a sodium hydroxide solution is mixed with an acetic acid solution?

A) gas evolution
B) oxidation-reduction
C) acid-base neutralization
D) precipitation

- 6) Which of the following atoms has the smallest radius?

A) Ne B) O
C) Li D) B

- 7) What is the molecular geometry if you have a double bond, a single bond and 1 lone pair around the central atom?

A) trigonal pyramidal
B) linear
C) tetrahedral
D) bent

- 8) What volume of 12.0 M HCl is required to make 75.0 mL of 3.50 M HCl?

A) 0.560 mL B) 257 mL
C) 560. mL D) 21.9 mL

$$9) \frac{(2.80 \times 10^{-3})(1.28 \times 10^1)}{(3.20 \times 10^{-4})} = \underline{\hspace{2cm}}$$

A) 1.27×10^1 B) 2.0×10^2
C) 1.2×10^6 D) 1.12×10^2

- 10) Of the molecules below, only _____ is polar.

A) CH_4 B) SbF_5
C) CO_2 D) AsH_3

- 11) Which one of the following is a metalloid?

A) S B) Ge C) C D) Pb

- 12) A certain atom has a charge of -2 and has 16 protons and 16 neutrons in the nucleus. How many electrons does this atom possess?

A) 34 B) 14 C) 32 D) 18

- 13) How many moles of pyridine ($\text{C}_5\text{H}_5\text{N}$) are contained in 3.13 g of pyridine?

A) 0.00404 B) 25.3
C) 0.0396 D) 0.319

- 14) Solve the following equation for x:

$$4x - b = 2x + c$$

A) $c - b - 6$ B) $\frac{c + b}{2}$
C) $\frac{c + b}{6}$ D) $\frac{c - b}{2}$

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1. Understanding the eBook Chemistry Placement Test Study Guide Texas Tech
 - The Rise of Digital Reading Chemistry Placement Test Study Guide Texas Tech
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Placement Test Study Guide Texas Tech
 - 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 Chemistry Placement Test Study Guide Texas Tech
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Placement Test Study Guide Texas Tech
 - Personalized Recommendations
 - Chemistry Placement Test Study Guide Texas Tech User Reviews and Ratings
 - Chemistry Placement Test Study Guide Texas Tech and Bestseller Lists
5. Accessing Chemistry Placement Test Study Guide Texas Tech Free and Paid eBooks
 - Chemistry Placement Test Study Guide Texas Tech Public Domain eBooks
 - Chemistry Placement Test Study Guide Texas Tech eBook Subscription Services

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