

ACS Final Exam Practice 1

The exam is 70 questions in 110 minutes. You may use the equation sheet and periodic table but no other materials

Section 1 Foundations

PQ-1. The speed of light is $3.0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$. What is this speed in $\text{nm}\cdot\text{ms}^{-1}$?

- (A) $3.0 \times 10^{-1} \text{ nm}\cdot\text{ms}^{-1}$ (B) $3.0 \times 10^2 \text{ nm}\cdot\text{ms}^{-1}$ (C) $3.0 \times 10^{14} \text{ nm}\cdot\text{ms}^{-1}$ (D) $3.0 \times 10^{23} \text{ nm}\cdot\text{ms}^{-1}$

PQ-4. What is the correctly reported mass of water based on the data in the table?

Mass of beaker and water	29.62 g
Mass of beaker only	28.3220 g

- (A) 1.3 g (B) 1.30 g (C) 1.298 g (D) 1.2980 g

PQ-5. What is the name of $\text{Ti}_2(\text{PO}_4)_3$?

- (A) titanium phosphate (B) titanium(III) phosphate
(C) titanium(IV) phosphate (D) titanium tetraphosphate

PQ-6. The formula of strontium hexafluorosilicate is SrSiF_6 . What is the formula of aluminum hexafluorosilicate?

- (A) AlSiF_6 (B) $\text{Al}_3(\text{SiF}_6)_3$ (C) Al_2SiF_6 (D) $\text{Al}_3(\text{SiF}_6)_2$

PQ-8. What is the correct name for N_2O_5 ?

- (A) nitrogen(II) oxide (B) nitrogen(V) oxide
(C) dinitrogen oxide (D) dinitrogen pentoxide

PQ-12. If a palladium nanoparticle has a density of $12.0 \text{ g}\cdot\text{cm}^{-3}$, what is the mass of a nanoparticle with a volume of $1.84 \times 10^{-23} \text{ cm}^3$?

- (A) $2.21 \times 10^{-23} \text{ g}$ (B) $1.63 \times 10^{-20} \text{ g}$ (C) $6.52 \times 10^{-21} \text{ g}$ (D) $1.53 \times 10^{-22} \text{ g}$

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Table of Contents Oars Chemistry Final Answers

1. Understanding the eBook Oars Chemistry Final Answers
 - The Rise of Digital Reading Oars Chemistry Final Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Oars Chemistry Final Answers
 - 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 Oars Chemistry Final Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Oars Chemistry Final Answers
 - Personalized Recommendations
 - Oars Chemistry Final Answers User Reviews and Ratings
 - Oars Chemistry Final Answers and Bestseller Lists
5. Accessing Oars Chemistry Final Answers Free and Paid eBooks

- Oars Chemistry Final Answers Public Domain eBooks
- Oars Chemistry Final Answers eBook Subscription Services
- Oars Chemistry Final Answers Budget-Friendly Options
- 6. Navigating Oars Chemistry Final Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Oars Chemistry Final Answers Compatibility with Devices
 - Oars Chemistry Final Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Oars Chemistry Final Answers
 - Highlighting and Note-Taking Oars Chemistry Final Answers
 - Interactive Elements Oars Chemistry Final Answers
- 8. Staying Engaged with Oars Chemistry Final Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Oars Chemistry Final Answers
- 9. Balancing eBooks and Physical Books Oars Chemistry Final Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Oars Chemistry Final Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Oars Chemistry Final Answers
 - Setting Reading Goals Oars Chemistry Final Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Oars Chemistry Final Answers
 - Fact-Checking eBook Content of Oars Chemistry Final 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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 pass myapp1

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