

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) $1.53 \times 10^{-22} \text{ g}$

Oars Chemistry Final Answers

RD Boyd



Oars Chemistry Final Answers:

This book delves into Oars Chemistry Final Answers. Oars Chemistry Final Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Oars Chemistry Final Answers, encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to Oars Chemistry Final Answers
- Chapter 2: Essential Elements of Oars Chemistry Final Answers
- Chapter 3: Oars Chemistry Final Answers in Everyday Life
- Chapter 4: Oars Chemistry Final Answers in Specific Contexts
- Chapter 5: Conclusion

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