

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)  $3.0 \times 10^{20} \text{ nm}\cdot\text{ms}^{-1}$

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  $\text{SrSiF}_6$ . What is the formula of aluminum hexafluorosilicate?

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

PQ-8. What is the correct name for  $\text{N}_2\text{O}_5$ ?

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

# 70 Question Chemistry Final Exam Answers

**A Gutmann**



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