

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 tetrophosphate

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

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