

HESI A2 Chemistry Practice Test

Section: HESI A2 Chemistry Exams • Total Questions: 10 • Format: Verified Q&A

1. Arrange the following unknown fluids in the correct order of how they would separate in a beaker, listed from bottom to top, based on the given measurements.

- (A) A, B, C
- (B) A, C, B
- (C) C, A, B
- (D) B, A, C

2. What is the density of a block on your desk that acts as a paperweight? The block measures 3cm by 4cm by 6cm and has a mass of 184.32g.

- (A) 13.27 g/cm³
- (B) 2.56 g/cm³
- (C) 0.39 g/cm³
- (D) None of the above.

3. Which type of reaction is exemplified by the chemical equation $\text{Cr} + \text{Fe}(\text{NO}_3)_2 \rightarrow \text{Fe} + \text{Cr}(\text{NO}_3)_2$?

- (A) Single replacement
- (B) Decomposition
- (C) Double replacement
- (D) Combustion

4. What is 119 K in degrees Celsius?

- (A) 32C
- (B) -154C
- (C) 154C
- (D) -32C

5. Where are protons held within an atom?

- (A) Nucleus
 - (B) Orbitals
 - (C) Electron cloud
 - (D) None of the above
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6. What role does carbonic acid play in the human body?

- (A) Digests food
 - (B) Kills viruses
 - (C) Maintains pH of blood
 - (D) Grows hair
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7. Which element has 13 protons, 13 electrons, and 14 neutrons?

- (A) Fe
 - (B) Zr
 - (C) Al
 - (D) Not enough information
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8. What is the term for the number of protons in an atom?

- (A) atomic identity
 - (B) atomic mass
 - (C) atomic weight
 - (D) atomic number
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9. What is the atomic number of a mystery element that has 6 protons, 6 electrons, and 6 neutrons?

- (A) 6
 - (B) 12
 - (C) 18
 - (D) Not enough information
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10. Which type of reaction is exemplified by the chemical equation $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$?

- (A) Single replacement
 - (B) Double replacement
 - (C) Combustion
 - (D) Decomposition
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