

HESI A2 Chemistry Practice Questions

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

1. What is pH?

- (A) The measure of concentration of H^+ ions
 - (B) The measure of concentration of hydrogen ions
 - (C) The measure of concentration of H_2O molecules
 - (D) None of the above
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2. A flask that weighs 345.8 g is filled with 225 mL of carbon tetrachloride. The weight of the flask and carbon tetrachloride is found to be 703.55 g. From this information, calculate the density of carbon tetrachloride.

- (A) 1.59 g/mL
 - (B) 2.76 g/mL
 - (C) 1.4 g/mL
 - (D) None are correct.
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3. What is the charge on potassium in the compound KCl?

- (A) -1
 - (B) +1
 - (C) -2
 - (D) +2
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4. What occurs to an atom that has a positive charge?

- (A) Gained an electron.
 - (B) Lost an electron.
 - (C) Gained a proton.
 - (D) Lost a proton.
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5. Which type of RNA is used to carry genetic code copied from DNA?

- (A) mRNA
 - (B) tRNA
 - (C) rRNA
 - (D) None of the above.
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6. What is the pH of a solution with a pH of 7?

- (A) Acidic
 - (B) Basic
 - (C) Neutral
 - (D) Positive
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7. Which of the following elements does not exist as a diatomic molecule?

- (A) boron
 - (B) fluorine
 - (C) oxygen
 - (D) nitrogen
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8. At very high temperatures, which state of matter is most commonly present?

- (A) Solid
 - (B) Liquid
 - (C) Gas
 - (D) None of the above
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9. Which of the following exhibits the most molecular interactions?

- (A) Solid
 - (B) Liquid
 - (C) Gas
 - (D) None of the above
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10. How many hydrogen atoms are present in the reactants?

- (A) 2
 - (B) 4
 - (C) 1
 - (D) None of the above
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