

### 18.4 Acid-Base Chemistry: Theory

#### Multiple-Choice Questions

1. Which combination of quantities are dimensional quantities? (correct)
- (A) pressure, concentration, pH, amount of substance  
 (B) volume, molarity, pH, amount of substance  
 (C) volume, molarity, pH, concentration of ions  
 (D) amount of substance, pH, concentration of ions, concentration of substance

(A)  $\text{pH} = \frac{[\text{H}^+]}{10^{-7}}$       (B)  $\text{pH} = \frac{[\text{H}^+]}{10^{-14}}$

(C)  $\text{pH} = \frac{[\text{H}^+]}{10^{-7}}$       (D)  $\text{pH} = \frac{[\text{H}^+]}{10^{-14}}$       (E)  $\text{pH} = \frac{[\text{H}^+]}{10^{-7}}$       (F)  $\text{pH} = \frac{[\text{H}^+]}{10^{-14}}$

2. An acid-base indicator has a  $\text{pK}_a$  of 4.5. In a solution of the indicator, the ratio of the concentration of the acid form to the concentration of the base form is 10:1. What is the pH of the solution? (correct)

(A)  $\text{pH} = 4.5$       (B)  $\text{pH} = 5.5$       (C)  $\text{pH} = 6.5$       (D)  $\text{pH} = 7.5$       (E)  $\text{pH} = 8.5$

(F)  $\text{pH} = 9.5$       (G)  $\text{pH} = 10.5$       (H)  $\text{pH} = 11.5$       (I)  $\text{pH} = 12.5$

3. An acid-base indicator has a  $\text{pK}_a$  of 4.5. In a solution of the indicator, the ratio of the concentration of the acid form to the concentration of the base form is 10:1. What is the pH of the solution? (correct)

(A)  $\text{pH} = 4.5$       (B)  $\text{pH} = 5.5$       (C)  $\text{pH} = 6.5$       (D)  $\text{pH} = 7.5$       (E)  $\text{pH} = 8.5$

4. Which of the following is a weak acid? (correct)



5. A solution of an acid has a pH of 3.5. The concentration of the acid is 0.1 mol/L. What is the  $\text{pK}_a$  of the acid? (correct)

(A)  $\text{pK}_a = 3.5$       (B)  $\text{pK}_a = 4.5$       (C)  $\text{pK}_a = 5.5$       (D)  $\text{pK}_a = 6.5$       (E)  $\text{pK}_a = 7.5$

(F)  $\text{pK}_a = 8.5$       (G)  $\text{pK}_a = 9.5$       (H)  $\text{pK}_a = 10.5$       (I)  $\text{pK}_a = 11.5$

6. An acid-base indicator has a  $\text{pK}_a$  of 4.5. In a solution of the indicator, the ratio of the concentration of the acid form to the concentration of the base form is 10:1. What is the pH of the solution? (correct)

(A)  $\text{pH} = 4.5$       (B)  $\text{pH} = 5.5$       (C)  $\text{pH} = 6.5$       (D)  $\text{pH} = 7.5$       (E)  $\text{pH} = 8.5$

# Multiple Choice Stoichiometry Test

**M Carnoy**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

**Multiple Choice Stoichiometry Test:**

## **Multiple Choice Stoichiometry Test** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Multiple Choice Stoichiometry Test**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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