

**CHAPTER 4 PRACTICE TEST: SOLUTION STOICHIOMETRY**

1) Which of the following are weak electrolytes? HCl,  $\text{HC}_2\text{H}_3\text{O}_2$ ,  $\text{NH}_3$ , KCl

A) HCl, KCl

B) HCl,  $\text{HC}_2\text{H}_3\text{O}_2$ ,  $\text{NH}_3$ , KCl

C)  $\text{HC}_2\text{H}_3\text{O}_2$ , KCl

D)  $\text{HC}_2\text{H}_3\text{O}_2$ ,  $\text{NH}_3$

E) HCl,  $\text{HC}_2\text{H}_3\text{O}_2$ , KCl

Answer: D Diff: 2

2) What are the spectator ions in the reaction between KOH (aq) and  $\text{HNO}_3$ (aq)?

A)  $\text{K}^+$  and  $\text{H}^+$

C)  $\text{K}^+$  and  $\text{NO}_3^-$

E)  $\text{OH}^-$  only

B)  $\text{H}^+$  and  $\text{OH}^-$

D)  $\text{H}^+$  and  $\text{NO}_3^-$

Answer: C Diff: 2

3) The balanced net ionic equation for precipitation of  $\text{CaCO}_3$  when aqueous solutions of  $\text{Na}_2\text{CO}_3$  and  $\text{CaCl}_2$  are mixed is \_\_\_\_\_.

A)  $2\text{Na}^+(\text{aq}) + \text{CO}_3^{2-}(\text{aq}) \rightarrow \text{Na}_2\text{CO}_3(\text{aq})$

E)

B)  $2\text{Na}^+(\text{aq}) + 2\text{Cl}^-(\text{aq}) \rightarrow 2\text{NaCl}(\text{aq})$

$\text{Na}_2\text{CO}_3(\text{aq}) + \text{CaCl}_2(\text{aq}) \rightarrow 2\text{NaCl}(\text{aq}) + \text{CaCO}_3(\text{s})$

C)  $\text{Na}^+(\text{aq}) + \text{Cl}^-(\text{aq}) \rightarrow \text{NaCl}(\text{aq})$

D)  $\text{Ca}^{2+}(\text{aq}) + \text{CO}_3^{2-}(\text{aq}) \rightarrow \text{CaCO}_3(\text{s})$

Answer: D Diff: 3

4) Which of the following are strong acids? HI,  $\text{HNO}_3$ , HF, HBr

A) HF, HBr

C) HI, HF, HBr

E) HI,  $\text{HNO}_3$ , HBr

B) HI,  $\text{HNO}_3$ , HF, HBr

D)  $\text{HNO}_3$ , HF, HBr

Answer: E Diff: 2

5) A neutralization reaction between an acid and a metal hydroxide produces \_\_\_\_\_.

A) water and a salt

C) oxygen gas

E) ammonia

B) hydrogen gas

D) sodium hydroxide

Answer: A Diff: 2

6) Which of these metals is the least easily oxidized? Na, Au, Fe, Ca, Ag

A) Na

B) Au

C) Fe

D) Ca

E) Ag

Answer: B Diff: 3

7) Based on the equations below, which metal is the most active?



A) Ni

B) Ag

C) Cu

D) Pb

E) N

Answer: A Diff: 3

8) What is the concentration (M) of KCl in a solution made by mixing 25.0 mL of 0.100 M KCl with 50.0 mL of 0.100 M KCl?

A) 0.100

B) 0.0500

C) 0.0333

D) 0.0250

E) 125

Answer: A Diff: 3

# Modern Chemistry Chapter 8 Review Answer Key

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