Name	Class	Date	

Assessment)

Ions in Aqueous Solutions and Colligative Properties

Section Quiz: Compounds in Aqueous Solution

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- 1. What happens when acetic acid, a weak electrolyte, dissolves in water? a. Hydronium ions form. **b.** The resulting solution will conduct electricity. **c.** Most of the acid remains as nonionized molecules in equilibrium with ions. **d.** All of the above 2. A solubility table shows that almost all compounds of Group 1 metals are soluble. This general rule tells you that a. KI is soluble. **b.** RbNO₃ is insoluble. c. CaCl₂ is soluble. **d.** CO_2 is soluble. **3.** Which solution contains the strongest electrolyte?
 - - a. 1.50 M NaCl
 - **b.** 2.0 M C₆H₁₂O₆
 - c. 5.7 M NH₃
 - **d.** 0.80 M CH₃COOH
 - **4.** Which solution would *not* conduct an electric current?
 - a. NaCl
 - b. HCl
 - **c.** $C_6H_{12}O_6$
 - d. CsI
 - **5.** Which of the following is a spectator ion in the following equation?

$$Ag^{+}(aq) + NO_{3}^{-}(aq) + K^{+}(aq) + Cl^{-}(aq) \rightarrow$$

$$AgCl(s) + K^{+}(aq) + NO_{3}^{-}(aq)$$

- a. K⁺
- **b.** Ag⁺
- c. Cl
- d. None of the above

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Secti	ion Quiz, continued		Offernae as A C
		t appear in the net ionic involves solutions of Ca	
	 7. How many moles of MgCl₂? a. 0.5 b. 1.0 c. 1.5 d. 2.0 	of ions are produced by	y the dissociation of 0.5 mol
econ	 a. The process of for called a. precipitation. b. hydration. c. dissociation. d. solvation. 	rming a solid by combir	ning two ionic solutions is
	$Ag^{+}(aq) + Cl^{-}(aq)$ a. only the reaction b. any reaction in	$q) \rightarrow \mathrm{AgCl}(s)$? on between AgNO_3 and which a precipitate of a on between AgNO_3 and	AgCl is formed
	_10. Which of the followa. H_2O b. H_3O^+ c. H^+	owing is a hydronium io	n?