

Name: _____

Date: _____

[2 pt] 1. What are the two driving forces that drive chemical reactions to occur. Briefly describe each.

[3 pt] 2. What is the main difference(s) between strong electrolytes, weak electrolytes, and a nonelectrolytes?

[6 pt] 3. Which classes of compounds generally form strong electrolytes, weak electrolytes, and a nonelectrolytes? Give an example of each type of molecule.

[2 pt] 4. List 6 strong Acids (Formula and Name).

[2 pt] 5. List 4 strong Bases (Formula and Name).

[2 pt] 6. List 4 weak acids given in class (Formula and Name).

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[5 pt] 7. Classify each of the following compounds as either a (S)trong electrolyte, (W)eak electrolyte or (N)onelectrolyte.

(a) HClO_4 7(a) _____

(b) $\text{HC}_2\text{H}_3\text{O}_2$ 7(b) _____

(c) NaNO_3 7(c) _____

(d) $\text{C}_6\text{H}_{12}\text{O}_6$ 7(d) _____

(e) KCl 7(e) _____

Write the Molecular, Ionic and Net Ionic equations for each of the following reactions. Balance all charges and equations, and include states.

[6 pt] 8. Silver Nitrate + Barium Chloride \longrightarrow Silver Chloride + Barium Nitrate

[6 pt] 9. Sodium Carbonate + Sulfuric Acid \longrightarrow Sodium Sulfate + Water + Carbon Dioxide

[6 pt] 10. Acetic Acid + Sodium Hydroxide \longrightarrow Sodium Acetate + Water