

# WORKSHEET 14

Chemistry 110

Name \_\_\_\_\_

(last)

(first)

Due date: \_\_\_\_\_

For each of the following, complete and write the balanced Molecular Equation, ME, including physical states for all reactants and products. Then write the Total Ionic Equation, TIE, and the Net Ionic Equation, NIE.

1. Aluminum is added to an aqueous solution of tin (II) nitrate.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

2. Aqueous solutions of potassium phosphate and bismuth (V) acetate are mixed.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

3. Magnesium is added to an aqueous solution of chromium (III) iodide

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

4. Aqueous solution of potassium dichromate and ammonium cyanide are mixed.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

5. Silver hydroxide is added to an aqueous phosphoric acid solution.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

6. Aqueous solutions of sodium fluoride and hydrochloric acid are mixed.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

7. Aqueous solutions of barium hydroxide and cupric acetate are mixed.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

8. An aqueous solution of nickel (II) iodide is added to an aqueous solution of potassium chromate.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

9. Zinc is added to an aqueous hydrobromic acid solution.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

10. Cesium carbonate is added to an aqueous solution of chromium (II) acetate.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

11. Silver hydroxide is added to an aqueous nitric acid solution

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

12. Aqueous solutions of ferric sulfate and sodium phosphate are mixed.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

13. An aqueous chromous nitrate solution is added to an aqueous sodium chloride solution.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

14. Lithium sulfide is added to an aqueous solution of cobalt (II) acetate

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_

15. Aqueous solutions of phosphoric acid and plumbous acetate are mixed.

ME \_\_\_\_\_

TIE \_\_\_\_\_

NIE \_\_\_\_\_