Name: _____ **FALL 2014**

Sec: _____ **DATE:** _____

Experiment: GRAVIMETRIC DETERMINATION OF NICKEL IN NICKEL OXIDE

PRE-LABORATORY EXERCISE (10 pts)

1. Write the chemical reaction involved in the gravimetric determination of nickel. (2pts)

2. Describe the use of a *sintered-glass crucible* to filter the precipitate. How the *porosity* affects the filtration? (2 pts)

3. Indicate two characteristics of the ideal precipitate. (2 pts)

4. What would happen to your results if the sample contains traces of Fe^{+2}? (2 pts)

5. What is “digestion” of a precipitate? Indicate the advantage and disadvantages of this procedure. (2 pts)