**Homework #3 Chemistry 1114 section 2 (Fong) due Wednesday 7 Feb 2018 28 pts (in class)**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3.0 Prefix Check-up**

**Convert the following to their best, prefixed expressions**

**6.0\*10-8 g = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2.4\*107 m= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3.1. Convert the units on the left to the indicated units on the right (2 pts each/6 pts total)**

**500 μg = \_\_\_\_\_\_\_\_\_\_ mg**

**0.006 ms= \_\_\_\_\_\_\_\_ ns**

**500 kg= \_\_\_\_\_\_\_\_\_Mg**

**3.1. How many sig figs in the numbers below :**

**8.00\_\_\_\_\_\_\_ 0.00010\_\_\_\_\_\_\_\_\_ 5.000\*1056\_\_\_\_\_\_\_\_\_\_\_\_**

**3.2 Compute the following calculations to the correct significant figure count:**

**(2 pts each)**

**301 + 0.100 -0.0100 + 1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6.000\* 3.0\*4.00 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2\*101**

**(102 +9 -1.00)\*5.0 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**25.00000**

**3.3 How does Dalton define compound ? (check your text, chapter 2) (1 pt)**

**3.4. Naming Circus: (2 pts/answer)**

(see : oxyanion list from lab or from Website under Laboratory)

1. Write the formula for sodium sulfate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Write the name for CoCl2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Write the formula for iron(III) carbonate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Write the name for NO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Write the formula for calcium nitride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_