**Chem 1013: mini-quiz # 7: Naming with Oxyanions redux & scientific notation A**

 **16 Feb**

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

**PO43- =phosphate CrO42- = chromate**

**1) What is the formula for a combination of Mg and chromate?\_\_\_\_\_\_MgCrO4\_\_\_\_\_\_\_\_\_\_\_**

**2) nickel(III) phosphate’s formula = \_\_\_\_\_NiPO4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3) express 5,100,000 in scientific notation:\_\_\_\_\_5.1\*10+6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4) express 0.000001 in scientific notation:\_\_\_\_1\*10-6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5) compute 1.0\*10-2 + 1.0\*10-3 = \_\_\_\_\_\_1.1\*10-2\_\_\_\_\_\_\_\_ (answer in scientific notation)**

**6) compute 3.0\*10-3 \* 4.0\*10‑3 \_\_\_\_1.2\*10‑5\_\_\_\_\_\_\_\_\_\_\_ (answer in scientific notation)**

**7) compute 4.0\*10-5/(2.0\*10-4) = \_\_\_2\*10-1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (answer in scientific notation)**

**Chem 1013: mini-quiz # 7: Naming with Oxyanions redux & scientific notation B**

 **14 Feb**

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

**C2O42-= oxalate NO3-1 = nitrate**

**1) What is the formula for a combination of Ca and oxalate?\_\_\_\_CaC2O4\_\_\_\_\_\_\_\_\_\_\_**

**2) nickel(III) nitrate’ formula = \_\_\_\_\_\_\_\_\_\_\_\_Ni(NO3)3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3) express 3,100 in scientific notation:\_\_\_\_3.1\*103\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4) express 0.00000001 in scientific notation:\_\_\_\_1\*10-8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5) compute 2.0\*10-2 + 2.0\*10-3 = \_\_\_\_\_\_2.2\*10\_2\_\_\_\_\_\_\_\_ (answer in scientific notation)**

**6) compute 8.0\*10-3 \* 2.0\*10‑4 \_\_\_\_\_1.6\*10‑6\_\_\_\_\_\_\_\_\_\_ (answer in scientific notation)**

**7) compute 4.0\*105/(2.0\*10-4) = \_\_\_\_\_\_2\*109\_\_\_\_\_\_\_\_\_\_ (answer in scientific notation)**