**Homework #2: Chemistry 1013 Spring 2015**

**Due Wednesday 11 February in class 15 pts**

**Your name:\_\_\_\_\_\_\_\_\_\_\_answers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 pt**

1)Element X comes in at least two isotopic forms: 65-X (69 % ) and 63-X (31%).

What is the average mass of X ? (2 pts)

**=(69\*65 + 31\*63)/100 = 64.38~64.4**

2)Predict the mp, bp, and density of Mu (2 pts)

**elt Mp bp density**

Om 100 4000 5

Mu 200 3000 4.5 just average between Om and Og

Og 300 2000 4

3) Provide the correct name or formula for the compounds below

**Lithium cyanide \_\_\_\_\_\_\_\_\_\_\_\_\_LiCN\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Fe(MnO4)2 \_\_\_\_\_\_\_\_\_\_\_\_iron(II) permanganate\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Barium oxide \_\_\_\_\_\_BaO\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Na3PO4\_\_\_\_\_\_\_\_\_\_sodium phosphate\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Trinitrogen pentaoxide \_\_\_\_\_\_\_N3O5\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mg(OH)2 \_\_\_\_\_\_\_\_magnesium hydroxide\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**copper (II) bisulfite \_\_\_\_\_\_\_\_\_Cu(HSO3)2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**S2O \_\_\_\_\_\_\_\_\_\_\_\_disulfur monoxide\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Ammonium sulfate \_\_\_\_\_\_\_\_\_\_\_\_(NH4)2SO4\_\_\_\_\_\_\_\_(not graded)\_\_\_\_**

**Stannous fluoride \_\_\_\_\_\_\_\_\_\_\_\_\_SnF2\_\_\_\_\_\_\_\_(not graded)\_\_\_\_\_\_\_\_\_\_\_**