**Mini-quiz #9 Chemistry 1114 section 2 (Fong) 15 Sept 2014 4 pts A**

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

Show work for all problems…just don’t spout an answer

1. Compute the molecular weight (MW) for: CaSO4 . (Use your Periodic Tables and round to nearest 1 g/mol)

\_\_\_\_\_\_\_\_g/mol CaSO4

2. The MW of CaCO3 is 100 g/mol. How many moles of CaCO3 are in 600 grams of it?

\_\_\_\_\_\_\_\_ mol CaCO3

3. How many grams are in 6.02\*1022 molecules of CaCO3 ? Assume 1 mole count=6.02\*1023

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_g CaCO3

**Mini-quiz #9 Chemistry 1114 section 2 (Fong) 15 Sept 2014 4 pts B**

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

Show work for all problems…just don’t spout an answer

1. Compute the molecular weight (MW) for: CaCl2 . (Use your Periodic Tables and round to nearest 0.1 g/mol)

\_\_\_\_\_\_\_\_g CaCl2 /mol

2. The MW of H2SO4 (battery acid) is 98 g/mol How many moles of are in 490 grams of it?

\_\_\_\_\_\_\_\_\_\_\_mol H2SO4

3. How many grams are in 1.228\*1022 molecules of H2SO4? Assume 1 mole count=6.02\*1023

\_\_\_\_\_\_\_\_ g H2SO4