**Homework #6 Chemistry 1013 (Fong) due Friday 27 Oct 2017 8 pts (in class)**

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

**The molecular mass of crystal meth (C10H13N) is 149 g/mol.**

**Assuming the atomic weights of C=12 g/mol; H=1 g/mol and N=14 g/mol**

**and 1 mole count=6\*1023. SHOW WORK OR NO CREDIT**

**3.1. How many grams of crystal meth are formed from 0.4362 g H?**

**\_\_\_\_\_\_\_\_ g meth**

**3.2 How many grams of C are found in 1.6666 mol crystal meth?**

**\_\_\_\_\_\_\_ g C**

**3.3. How many atoms of N are present if the meth sample contains 20 g of C ?**

**\_\_\_\_\_\_\_\_\_\_\_ atoms of N**

**3.4. How many grams of C are in a sample of meth which contains 1.3\*1023 atoms of H ?**

**\_\_\_\_\_\_\_\_\_\_\_ grams C**