**Mini-quiz #14 Chemistry 1114 Friday 11 October 2013 A**

**6 pts**

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

1. **How many moles of C3H8O2 are formed with 24 moles of O ?**

**Mol O/mol C3H8O2 = 2/1=24/x=> x= ½ \*24=12**

**\_\_\_12\_\_ mol C3H8O2 formed with 24 mol O**

1. **How many grams of C (at. mass=12 g/mol) are in 6 moles of C3H8O2  ?**

**Mol C/mol C3H8O2  = 3/1=x/6=> x=18 mol C**

**Mass C=mole C\* at. mass =18\*12=216 g**

**\_\_216\_\_ grams C in 6 moles C3H8O2**

1. **How many grams of H (at mass =1 g/mol) are present in 380 grams of C3H8O2  (MW=76 g/mol)**

**Mol C3H8O2 =380/76=5 mol C3H8O2**

**Mol H/mol C3H8O2 =8/1 = x/5=> x=40 mol => 40 mol \*1 g/mol = 40 g**

**\_\_40\_\_\_\_\_ grams H in 380 grams C3H8O2**

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1. **How many moles of C3H8O2 are formed with 24 moles of H ?**

**Mol C3H8O2/mol H = 1/8=x/24 => x= 3**

**\_\_\_3\_\_\_\_ mol C3H8O2 formed with 24 mol H**

1. **How many grams of O (at. mass=16 g/mol) are in 10 moles of C3H8O2  ?**

**Mol O/mol C3H8O2= 2/1= x/10=> x= 20 mol O**

**20 mol O \*16 g/mol =320 g**

**\_320\_\_\_\_\_ grams O in 10 moles C3H8O2**

1. **How many grams of C (at. mass=12 g/mol) are present in 380 grams of C3H8O2  (MW=76 g/mol)**

**mol C3H8O2 = 380/76=5**

**Mol C/mol C3H8O2 = 3/1=x/5=> x=15 mol C**

**Gram C= mole C\*at. mass= 15\*12=180**

**\_\_180\_\_\_\_\_ grams C in 380 grams C3H8O2**