**Chem 1013: mini-quiz # 16: Simple Chemical Body Parts Calculations A 6 pts March 13**

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

Nitroglycerin (‘nitro’) has the formula: C3H5N3O9.Its molecular weight is 227 g/mol.

1) How many moles of nitro can be made from 15 moles of N ?

\_\_\_\_\_\_\_\_ moles nitro

2) How many moles of O are in 1/3 mole of nitro ?

\_\_\_\_\_\_\_\_ mol O

3) How many grams of C are in 6.30555 g of nitro ? ( 1 mol of C =12 g)

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

**Chem 1013: mini-quiz # 16: Simple Chemical Body Parts Calculations B 6 pts March 13**

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Cocaine (‘coke’) has the formula: C17H21NO4 Its molecular weight is 303 g/mol.

1) How many moles of coke can be made from 16 moles of O ?

\_\_\_\_\_\_\_\_ moles coke

2) How many moles of C are in 2/17 moles of nitro ?

\_\_\_\_\_\_\_\_ mol C

3) How many grams of N are in 21.64 g of coke ? ( 1 mol of N =14 g)

\_\_\_\_\_\_\_ g N