

Course DNTS1302
Course Title :General chemistry
Date: 29/07/2013
No. of Questions:
Time: 1hours
Using Calculator (Yes)

University of Palestine



Mid-term Exam
Summer semester
2012/2013

Instructor Name: _____
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

You may use a calculator in this examination, but mobile phones are strictly prohibited. A sheet of the periodic table the RAMs of the elements is provided.

Answer ALL Questions:

1) Find the number of hydrogen atoms in 20.0 g of glucose, $C_6H_{12}O_6$.
(2 marks)

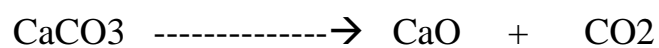
2) What volume would contain 3.5 g of methane gas at STP? (2 marks)

3) Calculate the volume of 15M NH_3 that must be used to prepare 250mL of 0.5M solution of ammonia. (2 marks)

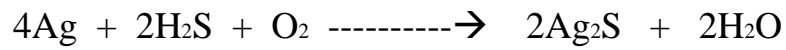
4) State all practical steps involved to prepare 50 mL of 0.4M ammonium nitrate. (2 marks)

5) A rock weighing 95.0 g, when heated produced 8.6 litres of carbon dioxide.

Calculate the percentage of calcium carbonate contained in the rock and the mass of calcium oxide produced: (5 marks)



- 6) What mass of silver sulphide (Ag_2S) could be obtained as a mixture of 0.95g Ag, 0.14g H_2S , and 0.08g O_2 were allowed to react: (4 marks)



- 7) Find the molecular formula of a compound that contains 7.04g phosphorous, and 5.46g sulphur if it has a molecular weight of 220 amu. (3 marks).

