Gaining Apex Coaching Centre

(Where Toppers make...... Toppers)

Compiled by: Dapinderjeet Singh

ASSIGNMENT – I (10+1 CHEMISTRY) CHAPTER 1 - (BASIC CONCEPTS)

- 1 Calculate the number of moles contained in 115 g of ethyl alcohol
- 2 How many atoms and molecules are there in 4g of nitrogen
- 3 How many atoms of oxygen are present in 1.0g of oxygen
- 4 Calculate the number of atoms of the constituents elements in 49g of H_2SO_4
- 5 Calculate the number of molecules present in one litre of water assuming that the density of water is 1 g mL⁻¹
- 6 Calculate the total number of electrons present in 1.6g of methane.
- Calculate the weight the Na2CO3 which will have the same number of molecules as contained in 12.3g of MgSO₄.7H₂O
- 8 Calculate the number of carbon and oxygen atoms present in 11.2 litres of CO₂ at NTP.
- 9 A piece of copper weighs 0.635 g. How many atoms of copper does it have?
- 10 Calculate the number of molecules and number of atoms present in 11.2 litres of oxygen at NTP.
- 11 Calculate the no. of atoms of each type in 3.42 grams of cane sugar
- 12 How many moles of ammonia are there in 250cc of 30% solution, the specific gravity of which is 0.90
- 13 What is the molarity of a solution of NaCl which contain 60g of Nacl in 2000 cc of solution (0.513M)
- How many moles and how many grams of NaCl are present in 250cc 0.50M NaCl solution (0.125, 7.3125)