**Toturial 1**

**Q1: Calculate the following:**

 **A)The weight in grams of 0.45 moles of glucose?**

 **B)The weight in grams of 1x1023 molecules of NaCl?**

 **C)The number of moles of in 2.25g glycine?**

**Q2:Calculate the Normality of the following solutions:**

**A) 250ml of HCl containing 18.25g of HCl ?**

**B)49 g of H2SO4in 250ml?**

**Q3: 12.25g of H3PO4 was dissolved in water and the volume made up to 100ml calculate the Normality of the solution?**

**Q4: 20g of NaCl was dissolved in 200ml of water what is its W/V%?**

**Q5: How many ml of 0.8M acetic acid (CH3COOH) are needed to prepare 200ml of 0.4N acetic acid?**

**Q6: Calculate the Molarity of a 10% W/V% MgCl2 solution?**

**Q7: How would you prepare 0.2L of 0.3% W/V% of MgCl2 ?**

**Q8: Describe the preparation of 2L of a 0.23M H2SO4 solution starting from a stock solution of H2SO4 92% W/W%, SG=1.84 g/ml?**

**Q9: Calculate the molarity of H2SO4 which has a molality of 6.8 molal, P=1.48 g/ml?**