

## **ASSIGNMENT NO 1**

**SUBJECT: CHEMISTRY** 

**CLASS-XI** 

APRIL,25

## Chapter 1- Some basic concept of chemistry

- 1. Explain the following terms:
  - (a)Avogadro number
- (b)Galussac law of gaseous combination
- 2. Find moles and atoms in 10g calcium.
- 3. Define the following:(a)Molarity (b) Mole fraction
- 4. Find molarity, molality and mole fraction for 40% aqueous solution of urea, if density of solution is 1.2g/ml.
- 5. In 0.5M, 50ml aqueous solution if glucose 150ml water is added find molarity after adding water.
- 6. An organic compound contains 75% carbon, 25% hydrogen, if molar mass of compound is 16g/ml then find empirical and molecular formula.
- 7. What is limiting reagent? Explain with example.
- 8. 1kg hydrogen reacts with 2Kg nitrogen gas to prepare ammonia, Find the following:

  (a)Limiting reagent (b) mass of ammonia produce (c) How much other reactant left.
- 9. How much CaCO<sub>3</sub> will react with 0.4M, 200ml HCl solution?
- 10. Find molality and molality of 1L water.