

DELHI PUBLIC SCHOOL, GAYA

WORKSHEET-1

Subject : Chemistry

Class : XII

Answer the following questions:

1. A solution contains 25% water, 25 % C_2H_5OH and 50% CH_3COOH by mass. Calculate the mole fractions of each component.
2. Calculate the mole fraction of oxygen in a mixture of 7g of nitrogen and 8g of oxygen.
3. Calculate the molality and normality of a solution containing 0.5gm of NaOH in 500ml solution.
4. Concentrated HCl contains 36.5% HCl.
Its density is 1.1854 gm/ml. Calculate its molarity and molality.
5. Calculate the molarity of oxalic acid when 1.575gram of it is dissolved in 250mL of solution.
6. Calculate the mole fraction of glucose and water when 18gram of glucose are dissolved in 180 gm of water.

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