

Assignment -I
Class – XII
Subject -Chemistry
Chapter -1

Q-1 Name two artificial semipermeable membrane.

Q-2 Derive a relation between degree of dissociation and Vant'Hoff factor .

Q-3 Which will have higher boiling point – 1 M KCl or 1 M BaCl₂ .

Q-4 A glass bottle of solution having osmotic pressure 2 atm does not burst when kept in air at 1 atm justify.

Q-5 What is difference between boiling point and normal boiling point?

Q-6 What is degree of dissociation? How is it related to dissociation constant of an acid?

Q-7 What will be value of vant'hoff factor 'i' if CaCl₂ is 75% dissociated?

Q-8 Note the value of KH for O₂ and N₂ gas at 25 degree Celsius from NCERT and compare the solubility of these gases .

Q-9 Solution may have boiling point higher or lower then pure solvent.

Suggest two solutes to justify above statement.

Q-10 What type of deviation from Raoult's law will be shown by solution of phenol and aniline? Explain the reason for the same.

Q-11 Intravenous injections are made isotonic to blood . Why?

Q-12 What type of interaction would be there between Acetyl nitrile and Pyridine?

Q-13 What will be the mole fraction of solute in one molal aqueous solution?

Q-15 Give two solutes whose solubility in water decreases with rise in Explain the reason for the same.

