Worksheet: Solutions

Karnataka State Board · Class 12 · Chemistry · 5 questions · 13 marks

Name: _____ Date: _____ Score: _____ / 13

Q1. Calculate the molality of a solution of 10 g glucose (M = 180) in 250 g water. *[2 marks]*

Q2. Calculate the osmotic pressure of 0.1 M glucose solution at 27 C. *[2 marks]*

Q3. Pure water has vapour pressure 23.76 mm Hg at 25 C. Find the vapour pressure of a solution of 10 g urea (M = 60) in 100 g water. *[3 marks]*

Q4. 0.5 g of a non-electrolyte in 50 g water gives a freezing point of -0.186 C (Kf = 1.86). Find the molar mass. *[3 marks]*

Q5. A 0.1 M KCl solution has delta-Tf = 0.335 C (Kf = 1.86). Find the van't Hoff factor. *[3 marks]*