

DAILY PRACTICE PROBLEMS								
	LASS : XIth ATE :			SUBJECT : CHEMISTRY DPP No. : 5				
Topic :-SOLUTIONS								
1.	The vapour pressure o a) Amount of liquid c) Temperature	of a liquid ir	n a closed con	-	a of the container			
2.	The vapour pressure of a) Mole fraction of solution b) 1/(mole fraction of c) Mole fraction of solution d) None of the above	ute solut <mark>e)</mark>	n is proportio	nal to :				
3.					= 180 g <i>mol⁻¹</i>) is isotonic with the molecular weight of the d)63			
4.	The spontaneous movement of solute particles from a more concentrated solution to less concentrated solution is called :a) Osmosisb) Diffusionc) Plasmolysisd) Fusion							
5.	How many grams of a sucrose (mol wt. = 342) should be dissolved in 100 g water in order to produce a solution with a 105.0°C difference between the freezing point and boiling temperature? ($k_f = 1.86$ C/m, $k_b = 0.151$ °C) a) 34.2 g b) 72 g c) 342 g d) 460 g							
6.			ity ⁻¹ respecti		spheric pressure. If K_f and K_b for solution will freeze at : d) 0. 654 C			
7.	19.85 mL of 0.1 N NaC molarity of HCl solutic a) 9.9		ith 20 mL of H	HCl solution for c) 0.099	complete neutralization. The d) 0.0099			

8.	The vapour pressure w a) 0.1 M sugar solution c) 0.1 M Cu(NO ₃) ₂ sol	L	b) 0.1 M KCl solution d) 0.1 M AgNO ₃ soution				
9.	Which one is correct? a) Molality changes wit c) Molarity does not ch		b) Molality does not change with temperature.d) Normality does not change with temperature.				
10.	What is molality of a solution in which (18 g glucose mol. wt. = 180) is dissolved in 50 a) 1 m b) 0.5 m		0 g of water? c) 0.2 m d) 2 m				
11.	Which of the following a) 0.1 (N) BaCl ₂	solution in water posses b) 0.1 (M)NaCl	c) 0.1 (M) KCl d) None of these				
12.	A 5.25% solution of a substance is isotonic with a 1.5% solution of urea (molar mass =60 gmo l^{-1}) in the same solvent. If the densities of both the solutions are assumed to be equal to 1.0 g c m^{-3} , molar mass of the substance will be a) 90.0 g mol ⁻¹ b) 115.0 g mol ⁻¹ c) 105.0 g mol ⁻¹ d) 210.0 g mol ⁻¹						
13.	Which of the following a) 0.1 M FeCl ₃ c) 0.1 M NaCl	solutions will have high	est boiling point b) 0.1 M BaCl ₂ d) 0.1 M urea (NH ₂ CON	VH2)			
14.	At25° <i>C</i> , the highest osmotic pressure is exhibited by 0.1 M solution of a) Decinormal aluminium sulphate b) Decinormal barium chloride c) Decinormal sodium chloride d) A solution obtained by mixing equal volumes of (b) and (c) and filtering						
15.	Molarity of 0.2 N H_2SO a) 0.1	4 is b) 0.2	c) 0.3	d)0.4			
16.	The ionic strength of solution containing 0.1 mol/kg of KCl and 0.2 mol/kg of $Cu SO_4$ isa) 0.3b) 0.6c) 0.9d) 0.2						
17.	25 mL of a solution of barium hydroxide on titration with 0.1 molar solution of hydrochloricacid gave a titre value of 35 mL. The molarity of barium hydroxide solution wasa) 0.07b) 0.14c) 0.28d) 0.35						
18.	The freezing point of e a) $C_6H_5NH_3Cl$	quimolal aqueous solutio b) La(NO ₃) ₃	on will be highest for c) $C_6H_{12}O_6$	d)Ca(NO ₃) ₂			

- 19. The normality of a 100 mL solution of sodium hydroxide which contains 4 g of NaOH, isa) 0.5b) 1.0c) 1.5d) 2.0
- 20. For determination of molecular weights, Raoult's law is applicable only to
 - a) Dilute solutions of electrolytes
- b) Concentration solution of electrolytes
- c) Dilute solutions of non electrolytes
- d) Concentration solution of non electrolytes

