Maria &	Quite		Len only
(() () ()		Physical_Chemistry_2nd_YUGS_EV_ST	
15/61		The state of the s	
Name of a student - Sa Ja	9 Pahad	0 //	No.
Mustansiriyah University Department of Chemistry	6		M-2025 Bologna_Process xam_Class_B Paper_A
Q1/MCQ test (Answer the fol	llowing)	150	(Warks 50 %)
1: The reduced phase rule is in	terested in two variants?	1	
<u>Answer:</u> a) p & T	b) F & T	Op & conc.	- d) T & conc.
2: Ideal solution follows	law.	0	30 01
Answer: a) Raoult's	b) Trouton's	C) Henry's law	d) Van't Hoff's law
3: The three phases of H ₂ O in t	the phase diagram meets?	2	AA
Answer: a at 1 atm	b) over 1 atm	c) below 1atm	d) at any pressure
4: Liquid solution of HNO3 is f	formed from?		SY - MAKE
Answer: a) 1 C	6 2e	c) 3 C	d) 4 C
5: How many phases are there	when the number of vari	ants is zero and the numbe	er of components is one?
Answer: a) zero	(B) Y	c) 2	d) 3
6: The Clausius-Clapeyron equ	ation can be applied whe	en there is an equilibrium t	petween one of the following?
Answer: a) L & L	6)S&L	c) G & L	d) S & S
7: One of the following formula	as represents the right eq	uation of Henry's law?	
Answer: (a) $P = \chi_A P^*_A$	b) $P_A > \chi_A P^*_A$	c) $P_A < \chi_A$	P_A^* d) none of these
8: Molality is used to calculate			
Answer: (a) non-volatile solute	b) pure solu	te c) pure solvent	d) solution
9: Osmosis pressure exerts whe	n the solvent transfers to	the?	. /
Answer: (a) volatile solute	b) non-volatile solu	te c) pure solvent	desolution
10- One of the most important l	benefits of measuring \(\Delta V \)	P , ΔT_b , ΔT_f and $\Delta \Pi$ is to c_0	alculate of B?
Answer: a) M	(b) m	c) V	d) p
Q2/ The vapor pressure (VP)	of a substance is 30 torr	at 250 K. At what temper:	ature will the substance have
VP of 150 torr? $\Delta_{\text{vap}}H$ is 4	5 kJ mol ⁻¹ ?	Zeno)	(Marks 25%)
Diet the phase discuss of	(A & D)	Lil a Company	
Plot the phase diagram of the system (A & B) assumed that (A & B) do not react with each other. A freezes at (-5 °C) and B freezes at (7 °C), and that an eutectic mixture is formed when the ratio is 70 wt			
% of A and that the eutectic melts at (-10°C), then label all the parts (p & F) of the diagram? (Marks 25%)			
(10 C), then label an the parts (p & r) of the diagram (warks 25%)			
	03 Zen		

0/2/

Sajag pallad

Dr Abdüljabbar I. R. Rushdi

perfolus tons

TOOL FREE THINKS