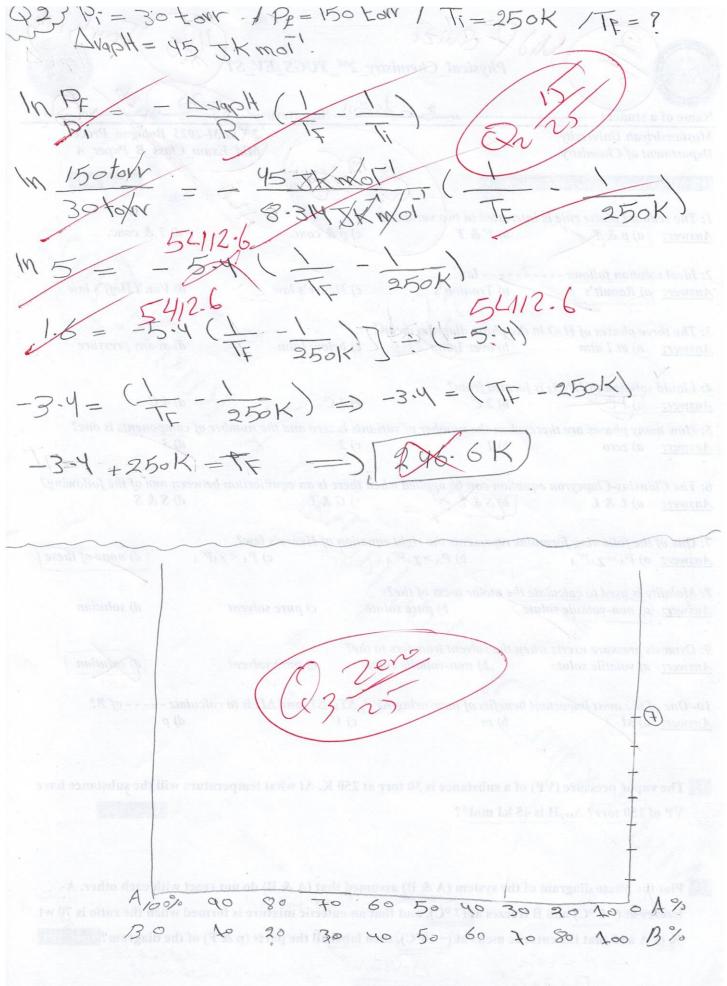
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Physical_Chemistry	y_2 nd _YUGS_EV_ST	XO YOU
		NV/A
Name of a student	<u>ڪيا</u> Signature	No 3
Mustansiriyah University	SEM-2	025_Bologna_Process
Department of Chemistry	Mid_Exan	n_Class_B_Paper_A
Q1/MCQ test (Answer the following)	50) 01	(Marks 50 %)
1: The reduced phase rule is interested in two variants?	2/	1000
Answer: (a) p & T b) F & T	c) p & conc.	d) T & conc.
2: Ideal solution follows law.		Oll K
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 the phase diagram meets?		A /
Answer: a) at 1 atm (b) over 1 atm	c) below 1atm	d) at any pressure
4: Liquid solution of HNO3 is formed from?	A1	
Answer: (a) 1 C b) 2 C	c) 3 C	d) 4 C
5: How many phases are there when the number of varia	ents is zero and the number of	f components is one?
Answer: a) zero b) 1	c) 2	d) 3
6: The Clausius-Clapeyron equation can be applied when	n there is an equilibrium betw	veen one of the following?
Answer: a) L & L b) S & L	c) G & L	d) S & S
7: One of the following formulas represents the right equ	nation of Henry's law?	
Answer: a) $P_A = \chi_A P_A^*$ b) $P_A > \chi_A P_A^*$	$c) P_A < \chi_A P^*_A$	d) none of these
8: Molality is used to calculate the molar mass of the?		-
Answer: (a) non-volatile solute (b) pure solute	e c) pure solvent	d) solution
9: Osmosis pressure exerts when the solvent transfers to	the?	
Answer: a) volatile solute b) non-volatile solut	te c) pure solvent	d) solution
		1 all last
10- One of the most important benefits of measuring ΔVI	P_{a} , ΔT_{b} , ΔT_{f} and $\Delta \Pi$ is to calculate	
Answer: (a) M b) m	c) V	d) p
	5 m / 11 / 11 / 11 / 11	
Q2/ The vapor pressure (VP) of a substance is 30 torr a		re will the substance have
	025013 0151 A same	(Marks 25%)
	g w.	
Q3/ Plot the phase diagram of the system (A & B) assur	med that (A & B) do not rea	ct with each other. A
freezes at (-5°C) and B freezes at (7°C), and that		
% of A and that the eutectic melts at (-10°C), then	label all the parts (p & F) o	of the diagram? (Marks 25%)
% of A and that the eutectic melts at (-10°C) , then $A = 70^{\circ}$ Thur_13-03-2025 Best wishes	من عادة عادة ما الما الما الما الما الما الما الما	See A
Thur_13-03-2025 Best wisher	es ما معاولت المتضر و Dr Al	oduljabbar I. R. Rushdi

Best wishes المتأسن كالمحادلة المتأسن كالمحادلة المتأسن كالمحادلة المتأسن كالمحادلة المتأسن كالمتأسن المتأسن المتأسنة ا



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