Disze (	200 Twenty only
Physical_Chemistry 2nd YUGS	EVO 25
	03
Name of a student Signature	No. 5
Mustansiriyah University	2nd SEM 2025_Bologna_Process
Department of Chemistry	Mid Exam_Class_B_Paper_A
Q1/ MCQ test (Answer the following)	(Marks 50 %)
1. The reduced of the reduced in the state is the state i	
1: The reduced phase rule is interested in two variants?  Answer: a) p & T b) F & T e) p & conc.	d) T & conc.
de scale	a) I & conc.
2: Ideal solution follows law.	201
Answer: (a) Raoult's (b) Trouton's (c) Henry's law	d) Van't Hoff's law
اهوار شائد و الا	11
3: The three phases of H <sub>2</sub> O in the phase diagram meets?  Answer: a) at 1 atm b) over 1 atm c) below 1 atm	0.0
Answer: (a) at 1 atm (b) over 1 atm (c) below 1 atm	d) at any pressure
4: Liquid solution of HNO3 is formed from?	112
Answer: $a) 1 C$ $b) 2 C$	d) 4 C
5: How many phases are there when the number of variants is zero and the	he number of components is one?
Answer: a) zero b) 1 c) 2	d) 3
Enle d'applientents abres	
6: The Clausius-Clapeyron equation can be applied when there is an equ	
<u>Answer:</u> a) L & L b) S & L c) G & L	d) S & S
7: One of the following formulas represents the right equation of Henry's	s law?
	c) $P_A < \chi_A P_A^*$ d) none of these
withing only fier	
8: Molality is used to calculate the molar mass of the?  Answer: a) non-volatile solute b) pure solute c) pure	solvent d) solution
inswers as non-volume source of pure source (c) pure	solvent d) solution
9: Osmosis pressure exerts when the solvent transfers to the?	
Answer: a) volatile solute b) non-volatile solute c) pure	solvent d) solution
ald who sign s I VI	<b>1</b>
10- One of the most important benefits of measuring $\triangle VP$ , $\triangle T_b$ , $\triangle T_f$ and $\Delta T_f$	All is to calculate of B?
Answer: a) M b) m c) V	(d) (e)
Egelo Elano co a la colo de la co	100 67071/00
O2/ The vapor pressure (VP) of a substance is 30 torr at 250 K. At wha	
	(Marks 25%)
VI OI 130 tori : Avapit is 43 kg moi :	Warks 25%)
Vo.	
A 0016160 70/18 Palland 100 pp pp	3
Plot the phase diagram of the system (A & B) assumed that (A & I	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 pa	rts (p & F) of the diagram? (Marks 25%)
	301/70

Q2/ Trad (1 Pa/30 torr Pil 150 tor = 541255×163 (TP 950) = 54/255 X163 (259) R/8-314 Dem Ma ناف الا قامونا YS gm - vm (L) F=0/2/208/ =120 eiellal Hamolius = 10 allo = 3 10 4 XI 70 = d ×100 = 2.19 عود الون العلي. 2.19 = [0.02] A FOX BOA 30%