(2) W. of Wi	ile 40	5) fourty
Physical_Chemistry	2nd_YUGS_EV_SF	
Name of a student - y jalius Culling [	0 = 1	
		No. (
Mustansiriyah University Department of Chemistry		025 Bologna Process
bepartment of enemistry	Mu_Exam	Class_B_Paper_A
Q1/MCQ test (Answer the following)		(Marks 50 %)
1: The reduced phase rule is interested in two variants?		
<u>Answer:</u> a) p & T b) F & T	c) p & conc.	d) T & couc.
2: Ideal solution follows law.		a colo
	a) II	TO THE TAXABLE PARTY OF THE PAR
	c) Henry's law	d) Van't Hoff's law
3. The desired of the state of		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 latm	2.0
	c) below turn	d) at any pressure
4: Liquid solution of HNO3 is formed from?		12,
	0)36	d) 4 C
idions rechiel defend the	مامر عدر الاطوار ليال	
5: How many phases are there when the number of varia	nts is zero and the number of	components is one?
Answer: a) zero b) 1	c) 2	d))3
و لفنا له می ما در الله الله الله الله الله الله الله الل	edelo ZV-	
6: The Clausius-Clapeyron equation can be applied when Answer: a) L & L b) S & L	there is an equilibrium betwo	een one of the following? d) S & S
التالية نقتل قانون حزى	ren 1695	
7: One of the following formulas represents the right equ	ation 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	c) pure solvent	d) solution
المروم الا عودى سؤله علاما برحرك المذب الى		
9: Osmosis pressure exerts when the solvent transfers to t	he?	
Answer: a) volatile solute b) non-volatile solute		d) solution
	عد ولاستياء اوالقوال	
10- One of the most important benefits of measuring $\Delta VP$	$P$ , $\Delta T_b$ , $\Delta T_f$ and $\Delta \Pi$ is to calculate	late of B?
Answer: (a))M b) m	c) V	d) p
1 ages		
Q2/ The vapor pressure (VP) of a substance is 30 torr at	t 250 K. At what temperatur	e will the substance have
VP of 150 torr? Δ <sub>vap</sub> H is 45 kJ mol <sup>-1</sup> ?		(Marks 25%)
lia		
Q3/ Plot the phase diagram of the system (A & B) assum	ned that (A & R) do not wood	t 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		
sei sei		the diagram sprants 25%)

Thur\_13-03-2025

Best wishes

Dr Abduljabbar I. R. Rushdi

