LIS Mid.	& Oirze		101	Thirt only
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Name of a student	21 31/2 Geleves	Signature 2	Jean	29/19/10
Mustansiriyah University			SEM-2025_Bologn	Drogges N
Department of Chemistry			Exam Class B P	
Q1/MCQ test (Answer the follo		50 / 8		rks 50 %)
1: The reduced phase rule is inte				
Answer: a) p & T	b) F & T	c) p & conc.	d) T & con	ic.
المثالي الوكا صبع فأ روث	1 Jabl			
2: Ideal solution follows	law.		- 1	
	b) Trouton's	c) Henry's law	d) Van't H	off's law
ر سانعی کی ایم العادر ب	الاصلاد اللاث لل		A. L.	
3: The three phases of H2O in the	phase diagram meets?		No.	
Answer: a) at 1 atm	b) over 1 atm	c) below latm	d) at any pr	ressure
			a the	
4: Liquid solution of HNO3 is for	med from?			
Answer: (a) 1 C	b) 2 C	c) 3 C	d) 4 C	
5: How many phases are there wi	hen the number of vari	ants is zero and the nun	nber of components	is one?
Answer: a) zero	b) 1	c) 2	(d) 3	is one.
		عو النوازيات المنالية	54 1 - 1 - 1 - 1	511
6: The Clausius-Clapeyron equat	ion can be applied whe	en there is an equilibriu	m between one of the	ne following?
Answer: a) L & L	b) S & L	c) G& L	d) S & S	ic jouoning.
	A			
7: One of the following formulas	represents the right ea	uation of Henry's law?		
Answer: a) $P_A = \chi_A P_A^*$	b) $P_A \rightarrow \chi_A P_A$	A	$(\chi_A P^*_A \qquad d) n$	one of these
8: Molality is used to calculate th		1		
Answer: a) non-volatile solute	b) pure solu	c) pure solven	t d) so	olution
	Bole in a sed	7		
9: Osmosis pressure exerts when				
Answer: a) volatile solute	b) non-volatile solu	c) pure solven	t d) so	olution
10- One of the most important be	nefits of measuring ΔV	P , ΔT_b , ΔT_f and $\Delta \Pi$ is to	o calculate, o	fB?
Answer: a) M	b) m	c) V	(d) p	
		30.	toop (Steel Lie's	
Q2/ The vapor pressure (VP) of	a substance is 30 torr	at 250 K. At what temp	perature will the su	bstance
have VP of 150 torr? Δ_{vap} H	is 45 k.I mol-19	nand		Marks 25%)
Auto totti Zvapii	is 45 kg inor .	2		0.10
6.40		1-25/	NO AM	SMEL!
Q3/ Plot the phase diagram of the	ie system (A & B) assu	med that (A & B) do n	ot react with each	other. A
freezes at (-5 °C) and B fre	ezes at (7 °C), and that	t an eutectic mixture is	formed when the	ratio is 70 wt
المبداد				
% of A and that the eutectic			& F) of the diagrai	n?(Marks 25%)
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Thur_123-03-2025	Best wish	es	Dr Abduljabbar	I. R. Rushdi
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