Jet On	Wile Wile		(202 TV	cirty Durk
1-25 N	cion avvia		(20)	
23	Physical_Chemistr	rv 2nd YUGS EV	ST	
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Name of a student		Signature -	d CENA 2020 A	No//-
Mustansiriyah University Department of Chemistry	Mark Hard		SEM-2025 Bologno	
Department of Chemistry	60		id_Exam_Class_B_P	uper_A
Q1/ MCQ test (Answer the fol		155 / F	(Ma)	rks 50 %)
مدوس معو ما	561/el/ 2600	X / ('	/	
1: The reduced phase rule is in		West of	1) 77.0	
Answer: (a) p & T	b) F & T	c) p & conc.	d) T & con	c.
while delete	/ 1			CIV
2: Ideal solution follows Answer: \(\begin{align*} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	b) Trouton's	c) Henry's law	d) Van't H	GC law
		C) Henry's law	d) Van't He	ijj s taw
3: The three phases of H ₂ O in the	Dadi lulip V	9	11	/
Answer: (a) at 1 atm	b) over 1 atm	c) below 1atm	d) at any pr	Possuro
1 *	650	cy ocion tuini	a) at any pr	ESSUIE
4: Liquid solution of HNO3 is fe			117	
Answer: a) 1 C		c) 3 C	d) 4 C	1-0-13
5: How many phases are there	10000		1.5	· 9
Answer: a) zero	(b) 1)	c) 2	d) 3	is one:
¥ 55.0	(3)	92	u) S	
6: The Clausius-Clapeyron equ	ation can be applied whe	on there is an equilibri	ium hetween one of th	e following?
Answer: a) L & L	(b) S & L	c) G & L	d) S & S	e jouowing.
	The was and	1) re! 101		
7: One of the following formula	is represents the right eq	uation of Henry's law	?	
Answer: (a) $P_A = \chi_A P^*_A$	b) $P_A > \chi_A P^*_A$			one of these
	- 12	is late alle	(12-0)	
8: Molality is used to calculate and Answer: a) non-volatile solute	The same of the sa			1
Answer: a) non-volume solute	b) pure solu	c) pure solve	ent a) sg	olution
9. Osmosis prossure avants who	The solvent transfers to	41, 2		
9: Osmosis pressure exerts when Answer: a) volatile solute	b) non-volatile solu		ent d) se	olution
	OLS WW as		,	nution
10- One of the most important b	penefits of measuring AV	P AT AT and All is	to calculate	fR9
Answer: (a), M	b) m	c) V	d) p	JESI
	13/3	1	boio	اعداب
All All	1, Elisae, 0			
O2/ The vapor pressure (VP) o	and a second and a second as a			hataman hama
The vapor pressure (VP) o				
VP of 150 torr? ΔvapH is 45	5 kJ mol-1?	١	$\sqrt{\frac{R^2}{\rho_1}} = \frac{\text{(Marks 2:}}{\text{SVac}}$	())
760	الحار		PI SVAN	54 (T- +
			N. K.	, , ,
OZ Plot the phase diagram of	the greaters (A. C. D)			
Plot the phase diagram of	the system (A & B) assu	imed that (A & B) do	not react with each	other. A
freezes at (-5 °C) and B fr	reezes at (7°C), and that	t an eutectic mixture	is formed when the i	atio is 70 wt
% of A and that the eutect	-	0		n?(Marks 25%)
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Thur 13-03-2025	Best wish	es	Dr Abduliabbar	R Rushdi

