(27)	Had & B	ire	10 Ten only
0.2			(100)
		v_2 nd _YUGS_EV_ST	Jalob
Name of a student	ر الحمد مُزعل عبال	Signature	No. 14
Mustansiriyah University		2 nd SEM	1-2023 Bologna_Process
Department of Chemistry		Mid_Ex	win Class_B_Paper_A
Q1/MCQ test (Answer the fol	lowing)	s 6	(Marks 50 %)
1: The reduced phase rule is in	terested in two variants?	(10)	
Answer: (a) p & T	b) F & T	c) p & covic.	d) T & conc.
2: Ideal solution follows		$\left(Q_{i}\right)$	1 00 h
Answer: (a) Raoult's	b) Trouton's	c) Henry's law	d) Van't Hoff's law
3: The three phases of H2O in t	the phase diagram meets?	ال	11/
Answer: a) at 1 atm	b) over 1 atm	c) below 1atm	d) at any pressure
4: Liquid solution of HNO3 is for	ormed from?		1191
		وال الظام تكون فيك	(d) 4 C
3: 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
6: The Clausius-Clapeyron equ	ation can be applied when	النقام المتوازن	Early Chal
Answer: a) L & L	b) S & L	c) G & L	d) S & S
ي	يمثل قا نون لمن	إصالعية العالمة	
7: One of the following formula	as represents the right equ	ation of Henry's law?	
Answer: a) $P_A = \chi_A P_A^*$	$(b) P_A > \chi_A P$	c) $P_A < \chi_A F$	d) none of these
8: Molality is used to calculate		P. ()	
Answer: a) non-volatile solute			d) solution
9: Osmosis pressure exerts whe	on the solvent transfers to		Ushe
Answer: a) volatile solute	b) non-volatile solut	te (c) pure solvent	d) solution
	al w ag hull	م و الرا معلو م	أفدالا أس
10- One of the most important l		ΔT_b , ΔT_f and $\Delta \Pi$ is to call	
Answer: (a) M	b) m	c) V —	d) p
13/20/20	181201 EL	30+00Mp) B = N 5/61	
The vapor pressure (VP)	of a substance is 30 torr a	t 250 K. At what temperat	ture will the substance have
VP of 150 torr? ∆vapH is 4:			(Marks 25%)
اطار دارا و الما	/Or 25/3	9 -5 July	عندفا يلون ظفظ
Plot the phase diagram of	the system (A. S. P.) assure	mod that (A & B) do not a	is now
Plot the phase diagram of the system (A & B) assumed that (A & 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 the diagram? (Marks 25%)
مروع عوالة أ O A and that the editect		i labet antine parts (p & F)	of the diagram (Marks 25%)
	(43-		
Thur_13-03-2025	Best wishe	es Dr /	Abduliabbar I. R. Rushdi

