- (1 > V)	rid Chuize		(30) wenty only
	and Care		100
5	Physical_Chemistry_2nd	YUGS_EV_ST	
		-YUGS_E 53	100
Name of a student	1 Gols ANS ~ mi	Signature	
Mustansiriyah University			No. 19025 Palama Para
Department of Chemistry	1000	Mix Ex	1-2025_Bologna_Process am_Class_B_Paper_A
2 epartment of enemony	4		cum_Cluss_B_1 uper_A
Q1/MCQ test (Answer the	following)	C-P+P	(Marks 50 %)
المرو متوجيت من الله المراح		011	
1: The reduced phase rule is			
Answer: a) p & T	b) F & T c) p	& conc.	d) T & conc.
المالي المالي	فانواماحلول اما		C 12
2: Ideal solution follows	law.		00
Answer: a) Raoult's		lenry's law	d) Van't Hoff's law
Then)	sky awing mis		AA .
3: The three phases of H <sub>2</sub> O is	n the phase diagram meets?		
Answer: a) at 1 atm	b) over 1 atm c) b	elow latm	d) at any pressure
The show all I	Verde Muli		5
4: Liquid solution of HNO3 is	s formed from?	F=C-P+2	F=0-1+Z=9
Answer: a) 1 C	b) 2 e	C . 5 . 5 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6	d) 4 C
5: How many phases are then	re when the number of variants is	zero and the number	r of components is one?
Answer: a) zero	b) C c) 2	= 1	d) 3
	"Cusying La	رو کن پیرون	cus de la sur como
6: The Clausius-Clapeyron e	quation can be applied when ther	e is an equilibrium b	etween one of the following?
Answer: a) L & L		SEL	d) S & S
	الله عمل ما نوز هندر	No.	
7: One of the following form	ulas represents the right equation	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
المرديق	- : الله الله الله الما الما الما الما الما		
8: Molality is used to calculate		w -	
Answer: a) non-volatile solu	ute b) pure solute	c) pure solvent	d) solution
(31)	1 local Milagio mel		
	hen the solvent transfers to the?		
Answer: (a) volatile sotute	b) non-volatile solute	c) pure solvent	d) solution
the Contract	And INDIA	الانشاء النوائد الح	12
10- One of the most importan	at benefits of measuring $\Delta VP$ , $\Delta T_{ij}$	b, $\Delta T_f$ and $\Delta \Pi$ is to call	
Answer: a) M	(b) (n)		d) p
	7/		
100	5,000 000	ául	ما ها درجة الحرز المندم
Q2/ The vapor pressure (VP	) of a substance is 30 torr at 250	K. At what tempera	ture will the substance have
VP of 150 torr? ΔvapH is		•	
VI di 130 tori : Avapir is	43 RJ IIIOI :		(Marks 25%)
6.0			1011
		,	درسم متدعو العوا
Plot the phase diagram	of the system (A & B) assumed t		
Vision			
freezes at (-5 °C) and B	3 freezes at (7 °C), and that an eu	itectic mixture is for	med when the ratio is 70 wt
% of A and that the eut	ectic melts at (-10°C), then labe	l all the parts (p & F	) of the diagram? (Marks 25%)

Thur\_13-03-2025

**Best wishes** 

Dr Abduljabbar I. R. Rushdi

