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Physical_Chemis	try_2nd_YUGS_EX	ST N 35
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Name of a student	Signaturd	No. (3)
Mustansiriyah University		SEM_2025_Bologna_Process
Department of Chemistry	M	id_Eram_Class_A_Paper_D
Q1/MCQ test (Answer the following)	7	B (Marks 50 %)
1: The Gibbs phase rule is interested in two variants?	. 1	منكائ موحل
<u>Answer:</u> a) p & T b) F & T	c) p & conc.	d) T & conc.
	5,1-1	
2: What do you expect if you add NaCl to H2O, an inc	rease in the?	
Answer: a) LP b) VP	c) FP	d) BP
3: The three phases of CO2 in the phase diagram meet	ts?	
Answer: (a) at 1 atm b) over 1 atm	c) below 1atm	d) at any pressure
A. The phase of super section is		Gly
4: The phase of super cooling is? Answer: a) gas b) liquid	a) solid	A) ml manua
-,1	. c) solid	d) plasma
-5: How many phases are there when the number of va		
Answer: a) zero b) 1	c) 2	d) 3 C =
	A >	·
6: The Clapeyron equation can be applied when there		
Answer: a) melt. & freez. b) sub. & depo.	c) vap. & cond.	d) all of these
	10	
7: The relationship between VP and m is	MY	
Answer: a) direct b) inverse	c) disordered	d) none of these
28: If you add a to a solvent, then there is a co	hange in the collinative	a nuanauties of the solvent
Answer: a) non-volatile solute b) volatile solute	c) pure solute	d) pure solvent
	c) pure sounc	u) pure soiveni
9: Osmotic process is used to push the solvent to the	9.0	
Answer: a) solute b) impure solute	c) mixture	d) pure solvent
- Jakes	c) manufic	u) pure solvent
10- One of the most important benefits of measuring n	nolar mass of the solut	a la da ada da da da a da a da
Answer: [a] m] b) II	c) V	
Siris!	c) r	d) p
02/ 0.5 mol of a non-P-solute was added to 12.0 mol	of D solvent VD	Oldo at 205 IV What had a VD
1. (1)		
295 K? Determine the deviation of this solution	from Raoult's law who	ere VP _{ideal} = 10 kPa. (Marks 25%)
Q3/ Plot the phase diagram of the system (A & B) as		
freezes at (-6 °C) and B freezes at (8 °C), and the	at an eutectic mixture	e is formed when the ratio is 60 wt
% of A and that the eutectic melts at (-9 °C), th	en label all the parts (p & F) of the diagram? (Marks 25%)

Sm 33

NO ANSWER 12 9V of 21 10 W 11 A 60% CT OF 100 B 40% Helpfabe planse diagram of the system (A & B) assumed that (A & B) do not reduct with each other. A Ax 0% 10% 20% 30% 40% 50% 60% 70% 60% 90% 100% BX1-1. 90x 80% 70% 60% 50% 40% 30% 20% 10% 0%