	13 M	Physical_Chemist	ry_2 <sup>nd</sup> _YUGS_EV	25T 25 100 1 went 100
Name of	a student	cue III (M)	Signature 4-8	No. 12
Mustansi	riyah University			2nd SEM-2025_Bologna_Process
	ent of Chemistry			Mid Class A Paper D
	) test (Answer the	following)	1 6 6 6 1 .	ر حا يدة المجار (Marks 50 %) 2- حادًا تتوهم عند اجماح ملح الرفعام المحا
1: The Gibbs phase rule is interested in two variants?				
Answer:	(a) p & T	b) F & T	c) p & conc.	d) T & conc.
2: What d	lo vou expect if you	add NaCl to H2O, an incr	ease in the?	O'V'
Answer:		b) VP	C) FP	d) BP
		0) 11	G. C.	2)(2) 1/2 1/2
3- الإفرارات في الكارس و في المارس و في ال				
3: The three phases of CO2 in the phase diagram meets?				
Answer:	a) at 1 atm	b) over 1 atm	c) below 1atm	d) at any pressure
4: The ph	ase of super coolin	g is?		12/
Answer:	a) gas	b) liquid	c) solid	a plasma) by
5. How m	anv nhases are the	re when the number of ver	viants is two and tha	number of components is one?
Answer:	a) zero	b) 1	c) 2	2 51 621 200 9
6: The Cl	apeyron equation c	an be applied when there	is an equilibrium bei	ween one of the following?
Answer:	a) melt. & freez.	b) sub. & depo.	c) vap. & cond.	d) all of these
7: The relationship between VP and m is				
	a) direct	b) inverse	c) disordered	d) none of these
8: If you add a to a solvent, then there is a change in the colligative properties of the solvent.				
Answer:	a) non-volatile solu	te b) volatile solute	of pure solute	d) pure solvent
Answer: a) non-volatile solute b) volatile solute copie solute d) pure solvent  9: Osmotic process is used to push the solvent to the?  Answer: a) solute b) impure solute c) mixture d) pure solvent				
Answare	c process is usea to	push the solvent to the		hope the delay resolved
Answer.	a) solule			
		nt benefits of measuring m	olar mass of the soli	ute is to study the change in
Answer:	a) m	b) II	c) V	
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-	ور وزوجم		Gowin - 50	الازدم ( ) المرد المان
Q2/ 0.5 m	ol of a non-P-solut	te was added to 12.0 mol	of P-solvent, VP* is	12.0 kPa at 295 K. What is the VP at
1	married A liver		rom Raoult's law w	here VPideal = 10 kPa. (Marks 25%)
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11	J' /		, in	ا تحمراف موجها او سا
Q3/ Plot the phase diagram of the system (A & B) assumed that (A & B) do not react with each other. A				
freezes at (-6°C) and B freezes at (8°C), and that an eutectic mixture is formed when the ratio is 60 wt				
% of A and that the eutectic melts at (-9 °C), then label all the parts (p & F) of the diagram? (Marks 25%)				
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		AB) 15,11/21 (199	عدوالاعوار ا + عرورایان	

Q21 WB A SEMESTER MORE PA Answer: at select ass of the solute is to study the 10- Our of the most important bener - Show fre zing 21= 'éer's 4C What is the VP at 3 & 0.5 mol of a non-P-solute 295 K2 Determine the (LE Plot the place 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 (8 °C), and that an curectic mixture is form ·40 .150