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	Physical_Chemistr	y_2 nd _YUGS_EV	370
Name of a student	order sub c'	(4) Signature	Burgo Ma (11)
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Mustansiriyah University			nd SEM 2025_Bologna_Process
Department of Chemistry	· Assa	A A	In Fram_Class_A_Paper_D
Q1/MCQ test (Answer the		030	(Marks 50 %)
1: The Gibbs phase rule is	interested in two variants?		
Answer: a) p & T	OF & O	c) p & conc.	d) T & conc.
2. What do you expect if yo	s le c'hell le aliel zie se ou add NaCl to H2O, an incre	والألتوق	
Answer: a LP	b) VP	c) FP	d) BP
- 151 - P10			1010
3: The three phases of CO	in the phase diagram meets		11/
Answer: (a) at 1 atm	b) over 1 atm	c) below 1atm	d) at any pressure
4: The phase of super cool	ell		151
		c) solid	d) plasma
5. How many phases are th	Jore when the number of var	ignts is two and the	d) plasma of live for components is one?
Answer: a) zero	b) 1	c) 2	(d) 3
	9,2	9-	
6: The Clapevron equation	can be applied when there is	s an eauilibrium bet	ween one of the following?
Answer: (a) melt. & freez		c) vap. & cond.	d) all of these
7: The relationship between		100	
Answer: a) direct	b) inverse	disandand	d) wave of these
		c) disordered	d) none of these
8: If you add a to	مالد العلام الدور الدور الدور الدور الدور الدور الدور الدور والدور الدور الدو	ange in the colligati	we properties of the solvent.
Answer: a) non-volatile so	lute b) volatile solute	c) pure solute	d) pure solvent
Chill alo	de la Contraction de la Contra	•	1
9: Osmotic process is used		?	
Answer: a) solute	b) impure solute	c) mixture	a) pure solvent
10.0 (4)	الخذاب لراسة المتسرفي	In leve Line	बी यही ग्रंडिंग रहा.
Answer: a) m	tant benefits of measuring me	olar mass of the soli	
Answer. u) m	0) 11	(0)	d) p
	Y	- A 11	
نولر دف ان مزروطی M	w comp	لعارى لها و نها و	Biel
Q2/0.5 mol of a non-P-sol	ute was added to 12.0 mol o	f P-solvent, VP* is 1	2.0 kPa at 295 K. What is the VP at
295 K? Determine the		com Raoult's law w	12.0 kPa at 295 K. What is the VP at here VP _{ideal} = 10 kPa. (Marks 25%)
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Mon		6/4/19 1	Pel auxi
Q3/ Plot the phase diagram	m of the system (A & B) assi	umed that (A & B)	do not react with each other. A
freezes at (-6°C) and	B freezes at (8 °C), and the	なパコナ H らば nt an eutectic mixtu	re is formed when the ratio is 60 wt supplements (p & F) of the diagram? (Marks 25%)
% of A and that the e	utectic melts at (-9°C), the	en label all the parts	(p & F) of the diagram? (Marks 25%)
	. 100		

Qs 0.5* Answere (a) melt. Elfrest. By A SOY. Lel wrong eg