	(Zeve)	1.0 10	ry_2 <sup>nd</sup> _YUGS_EV_\$1	Terro XOD
Name of a studentNoNoNo.				
Mustansiriyah University 2nd SEM-2028_Bologna_Process				
Departme	nt of Chemistry		Zero Mid	Exam_Class_A_Paper_D
Q1/MCQ	test (Answer the	iollowing)	(30)	(Marks 50 %)
1: The Gibbs phase rule is interested in two variants?				
Answer:		b) F & T	c) p & conc.	d) T & conc.
2: What d	o <u>yo</u> u expect if you	add NaCl to H2O, an incr	rease in the?	
Answer:		b) VP	c) FP	d) BP
3: The three phases of CO <sub>2</sub> in the phase diagram meets?				
Answer:	a) at 1 atm	b) over 1 atm	( ) below latin	d) at any pressure
4: The ph	ase of super cooling	g is?		15
Answer:	a) gas	b) liquid	c) solid	d) plasma
5: How m	any <u>phases are</u> thei a) zero	re when the number of var b) 1	riants is two and the number	ber of components is one? d) 3
Answer:	a) melt. & freez.	an be applied when there is b) sub. & depo.  VP and m is b) inverse	is an equilibrium between c) vap. & cond. c) disordered	one of the following? d) all of these d) none of these
		0.0		a) 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 solute b) volatile solute c) pure solute d) pure solvent				
	- A CONTRACTOR OF THE PROPERTY	push the solvent to the		
Answer: a		b) impure solute	c) mixture	d) pure solvent
10- One of the most important benefits of measuring molar mass of the solute is to study the change in				
Answer:	a) m	b) II	c) V	(d) p
(		/ 0	N. T.	
Q2/ 0.5 m	من المنظوم المنطق ا المنطق المنطق	e was added to 12.0 mol o	ضعنوا واشى حديث تحفين of P-solvent, VP* is 12.0 k	Pa at 295 K. What is the VP at
295 K? Determine the deviation of this solution from Raoult's law where VP <sub>ideal</sub> = 10 kPa. (Marks 25%)				
		ابد غرا خ	Pero law where	VI ideal - IU KI a. [Warks 25%)
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%)				
$\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{2}$				
Mo_17-0	3-2025	Best wish	es D	r Abduljabbar I. R. Rushdi

Playsical Chemistry 2nd YUGS EV ST S. How many minses or ethere when the Q2/ 295 K? Determine the dor F=C+P+1 Dor What? F: 2-P2)
== 2-1+1