2	1. A Quit	try_2 nd _YUGS_EV	40 Fourty o
	Physical_Chemis	try_2 nd _YUGS_EV	ST
Name of a student	e la Nien	Signature	b) South
Mustansiriyah University			SEM-2025_Bologna_Process_ 2
Department of Chemistry		2 M	id Exam Class A Paper D
Q1/MCQ test (Answer t	he following)	10 8	(Marks 50 %)
There ous gra	is well also	5	(Marks 20 /0)
1: The Gibbs phase rule is Answer: (a) p & T	s interested in two variants? b) F & T	c) p & conc.	d) T & conc.
			ay I a conc.
2: What do you expect if y	ou add NaCl to H2O, an inc		In Oh.
Answer: Cally	b) VP	c) FP	d) BP
3. The three phases of CC	کری کر کانکی 2 in the phase diagram meet	(-9	A A A
Answer: a) at 1 atm	b) over 1 atm		
,		c) below 1atm	d) at any pressure
ر ما ف 4: The phase of super coo	ling is?		197
Answer: a) gas	6) liquid	c) șolid	d) plasma
5: How many phases are t	there when the number of va	riants is two and the	d) plasma اعدی کاروار خدی number of components is one?
Answer: a) zero	(b) 1	c) 2	d) 3
6. The Clangroom agustion	ر ارن ک ک کے میں can be applied when there	شوازن ما على عو	لهقيا مايقها
Answer: a) melt. & free	z. b) sub. & depo.	(g) vap & cond.	d) all of these
	C		u) un of mese
7: The relationship between	en VP and m is	2 Méso	
Answer: a) direct	(b) inverse	c) disordered	d) none of these
8: If you add at	o a solvent, then there is a cl	hange in the colligative	a proparties of the solvent
Answer: (a) non volatile se	olute b) volatile solute	c) pure solute	d) pure solvent
عانها ازمونية	ا نفوه لرفع مذيب الح to push the solvent to the	L. Martin	
Answer: a) solute	b) impure solute	c) mixture	d) pure solvent
10- One of the most impor	tant honofits of measuring n	polar mass of the solu	ا مد عاد ا کا ک
Answer: a) m	(6) 11	c) V	d) p
3000	ارموري		Seed
	51761	اريقى مزب عمل	is leep.
Q2/0.5 mol of a non-P-so	lute was added to 12.0 mol	of P-solvent, VP* is 12	O kPa at 295 K What is the VP at
295 K? Determine th	و کن می کون موجود الد e deviation of this solution	مل اذمار from Raoult's law wh	ere VP _{ideal} = 10 kPa. (Marks 25%)
. 2 / /		7100	1 Ton see in its
110			
03/ Plot the phase diagra	m of the system (A & B) as	sumed that (A & B) d	o not react with each other. A
			e is formed when the ratio is 60 wt
			(p & F) of the diagram? (Marks 25%)
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Mo 17:03-2025	Best wish	nes	Dr Abduljabbar I. R. Rushdi
Sum 23 03-202) Mo_ 12-03-2025	10 50 10 10 10 10 10 10 10 10 10 10 10 10 10		- , , , , , , , , , , , , , , , , , , ,

Q2/Vpideal=10KPa T = 295 12mo1 = vilos ve × = 12 K Pa d) all of these Bentheh liquid liquid Benthon Solid Solid Solid liduid aut = 60 of mil (P)