



Or Abduljabbar I. R. Rushdi

Best wishes

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(4)	Physical_Chemi	istry_2 nd _YUGS_EV	ST 25 AND
	1/1/2000		(3)
Name of a student	رو ب سم موری	Signature -	No(41)
Mustansiriyah University			ond SEM-2025 Bologna Process
Department of Chemistry	Y FY	1 A	Aid_Exam Class_B_Paper_A
Q1/MCQ test (Answer the f	following) قادة الأدر المختران تكوما الأروع	(120)	(Marks 50 %)
1: The reduced phase rule is		52 ((),)	
Answer: (a) p & T	b) F & T	c) p & conc.	d) T & conc.
2: Ideal solution follows	law.		
Answer: a) Raoult's	b) Trouton's	c) Henry's law	(d) Van't Hoff's law)
	رود واللائم الماء		
3: The three phases of H ₂ O in		ets?	
Answer: a) at 1 atm	b) over 1 atm	c) below 1atm	d) at any pressure
ما م المسترك	المحلول السائل	7	
4: Liquid solution of HNO3 is			011
Answer: (a) 1(C)		c) 3 C	d) 4 C
5. How many phases are there	a when the number of w	C) 3 C	ماهوی دالوطو number of components is one?
Answer: (a) zero	b) 1	c) 2	d) 3
TARBOVETY (1) SET OF	0) 1		
6: The Clausius-Clapeyron ed Answer: a) L & L	quation can be applied w	when there is an equitible	مادلت للسوس مها علامة rium between one of the following? d) S & S
	ری	احوالهمتح التلبية فالرقائرة متر	
7: One of the following form	ulas represents the right	equation of Henry's la	w?
Answer: (1) $P_A = \chi_A P^*$	$b) P_A > \chi_A P^*$	c) F	$P_A < \chi_A P_A^*$ d) none of these
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8: Molality is used to calculat			
Answer: a) non-volatile solu	nte (b) pure so دالارمرزی سولدعذیا سؤل المونی	lute c) pure sol	vent (4) som on
9: Osmosis pressure exerts wi			
Answer: a) volatile solute	. b) non-volatile se	olute c) pure solute الفياس هو لحسا بالخواس	vent disolution
10- One of the most importan	t benefits of measuring	ΔVP , ΔT_h , ΔT_c and $\Delta \Pi$	is to calculate of R?
Answer: (a) M	b) m	c) V	d) p
	1/300		
المغاد البخارى	10.20		
- 4 41	3/53/6		واحد درجة الحرارة لهذة المادة
The vapor pressure (VP)) of a substance is 30 to	rr at 250 K. At what te	mperature will the substance have
VP of 150 torr? ΔvapH is	45 kJ mol ⁻¹ ?		(Marks 25%)
الميار الموثع وعُوك منع	T X	-) e ³ 5 5 5	12-2-6
NI	(4)	- 1	
Q3/ Plot the phase diagram	of the system (A & B) as	ssumed that (A & R) d	o not react with each other. A
freezes at (-5 °C) and B	freezes at $(7 ^{\circ}\text{C})$, and t	hat an eutectic mixture	Sol 1 2 50 e is formed when the ratio is 70 wt
X L	[1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982] [1982]		(p & F) of the diagram? (Marks 25%)
	ينظور كنز درم كو ارة () ه		
Thur_13-03-2025	Best wi	shes	Dr Abduljabbar I. R. Rushdi