			20 Twenty orly
	Physical Chemistr	y_2nd_YUGS_EV_ST	(20)
Name of a student	سے ویئم حلف	Signature -	No. 38)
Mustansiriyah University		2nd SE	EM-2028 Bologna Process
Department of Chemistry		Mid	Exam_Class_B_Paper_A
Q1/ MCQ test (Answer the fol	lowing) عاعدہ مکور محلف نو	(15/5)	(Marks 50 %)
1: The reduced phase rule is in	terested in two variants?	2,5	
	b) F & T	c) p & conc.	d) T & conc.
2: Ideal solution follows Answer: a) Raoult's	b) Trouton's	a) Hammer Alam	A) W. W. H. CC.
Answer. u) Rubuit 3		c) Henry's law	d) Van't Hoff's law
3: The three phases of H ₂ O in t	the phase diagram meets?		27
Answer: a) at 1 atm	b) over 1 atm	c) below 1atm	d) at any pressure
in which	A John I	F. P. C.	
4: Liquid solution of HNO ₃ is for Answer: (a) 1 (C)	ormed from? b) 2 C	c) 3 C	d) 4 C, s = 0 Lo
5: How many phases are there	when the number of varia	ints is zero and the numb	er of components is one?
Answer: a) zero	b) 1	c) 2	d) 3
6: The Clausius-Clapeyron equ Answer: a) L & L	ation can be applied when b) S & L	n there is an equilibrium	between one of the following? d) S & S
	and 15/15 the		4,5 4.5
7: One of the following formula	is represents the right equ	uation of Henry's law?	
Answer: (a) $P_A = \chi_A P^* A$	b) $P_A > \chi_A P_A^*$	c) $P_A < \chi$	AP^*_A d) none of these
8: Molality is used to calculate	the molar mass of the?	ره لي ل ا ب	o Cione
Answer: a) non-volatile solute		c) pure solvent	d) solution
9: Osmosis pressure exerts whe	n the solvent transfers to	the?	/) J D D D D D D D D D D D D D D D D D D
Answer: a) volatile solute	b) non-volatile solu	patron and the same of the sam	d) solution
10- One of the most important l	benefits of measuring ΔV	P, ΔT_b , ΔT_f and $\Delta \Pi$ is to o	calculate of B?
Answer: a) M	b) m	c) V	d) p salute
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Q2/ The vapor pressure (VP) of	of a substance is 30 torr a	at 250 K. At what temper	rature will the substance have
VP of 150 torr? Δ_{vap} H is 4:	5 kJ mol-1? 8 4/4	Allua N XD	(Marks 25%)
	2 - 570 min	A'	
Q3/ Plot the phase diagram of	A STATE OF THE PARTY OF THE PAR		
			ormed when the ratio is 70 wt
			F) of the diagram? (Marks 25%)
que cle	Best wishe	Row prio lia FOW	t A
Thur_13-03-2025	Best wishe	es 3 D	r Abduljabbar I. R. Rushdi