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Physical	al Chemistry	2 nd _YUGS_EV_ST		aty
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Mustansiriyah University		and c	2025_Bolog	na Process
Department of Chemistry	10		Exam_Class_A	
AWO	102			
Q1/MCQ test (Answer the following)	(Q, 3		(1)	Marks 50 %)
1: Depression of freezing point of a sol	ution means inc	reasing in?		(
Answer: a) T		c) µ	d) S	20
2: If you apply the reduced phase rule to	o condensed syste	ems, then the expected v	value of pressure	is?
Answer: a) zero b) 1	NO CV	c) 2	d) 3	
3: The reduced phase rule can be applie	d when the num	ber of components is	?	1
Answer: (a) zero b) 1	$\mathcal{N} \subset$	c) 2	d) 3	
4: Which One of the following formula	as represents the	right equation of nega	tive deviation fr	om Raoult's
law?	D*	ni ni		and a second
Answer: a) $P_A^* \neq \chi_A P_A$ b) P_A	$=\chi_A P_A$	c) $P_A > \chi_A P^*_A$	$d)P_A < \chi$	AP^*A
5: Addition of a non-volatile solute to th	e pure solvent ca	uses a change in?	And the second s	Contrad Contract
Answer: a) $\Delta_{mix}H$ b) Δ_{m}		c) Amix	d) all of t	hese
6: The difference between pure and imp	ure solvent is?	Customers apply agreed the Professional		
Answer: a) $\mu^* = \mu$ b) $\mu^* >$		c) μ*< μ	d) $\mu^* \neq \mu$	
7: The relationship between ΔT_f and χ_B	is?			
Answer: a) direct b) inve	at the latest the same of the	c) disordered	d) none o	f these
8: With the two-component system (A &	B), one part of t	he solid phase consists	of?	
	solution	c) B + solution	d) A + eu	tectic
9: If you add a solute to a solvent, then t	here is a decreas	e in the of the so	lution	
Answer: a) S b) H	nore is a accreas	c) T	d) µ	
10: Dalton's law is used to calculate the	nautial nuacouna	of phase?		
Answer: a) liquid b) gas	partiai pressure	c) solid	d) plasma	ı
Q2/ The Π of a solution containing 4.0	g of an unknow	substance per 0.5 dm ³	of solution is 10	³ torr at
34.0 °C. Find the molar mass of thi				Marks 25%)
AY	g to suy!			
Using the diagram below and the a	ppropriate phas	e rule, fill in all the bla	nks and determ	ine the
composition of the all-eutectic mix				

the name of the regions located to the right and left of points C, E & AB?

(Marks 25%)



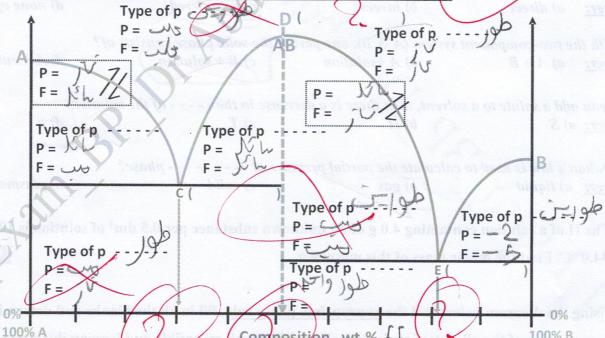
Physical Chemistry 2nd YUGS EV ST



Name of a student -Signature -

2×3-30XX

system



Composition wt % \