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Physical_	Chemistry_	2 <sup>nd</sup> _YUGS_EV_ST	100 only
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Mustansiriyah University			EM-2025_Bologna_Process
Department of Chemistry	121		Exam Class A Paper C
Q1/MCQ test (Answer the following)	629		(Marks 50 %)
1: Depression of freezing point of a solution	an means inc	reasing in?	
Answer: a) T		() II	, d) S
1 Cose et diend as;	120 bec	العليق قاعرة الع	اذاتع
2: If you apply the reduced phase rule to co	ondensed syste	ems, then the expected v	alue of pressure is ?
Answer: (a) zero b) 1		c) 2	d) 3
لبنيقها عنومايكون محدد لهكوتات	لا دي عل	قاعرة العور للفاتن	11
3: The reduced phase rule can be applied w			?
Answer: (a) zero b) 1		(c) 2	d) 3
A THE STATE OF THE	Col po	المرمى الاته متعللات	Emile D
4: Which One of the following formulas i		The state of the s	and the second s
law?			
Answer: a) $P_A^* \neq \chi_A P_A$ b) $P_A = \gamma$	$\chi_A P^*_A$	(c) PA XAPA	$d) P_A < \chi_A P^*_A$
5: Addition of a non-volatile solute to the p	una salvanta	augas a ahawaa in 2	
Answer: a) $\Delta_{mix}H$ (b) $\Delta_{mix}S$	All	c) $\Delta_{mix}V$	d) all of these
11115 VET W SMILLT	1	C) \(\text{\text{\text{\text{\text{MIX}}}}\)	u) un of these
6: The difference between pure and impure	a salvant is9	100	•
Answer: a) $\mu^* = \mu$ b) $\mu^* > \mu$		c) u*< u	$d) \mu^* \neq \mu$
a) p	NA A	Sh. H	$\mu + \mu$
7. The relationship between T and wie?			
7: The relationship between $\Delta T_f$ and $\chi_B$ is?  Answer: a) direction b) inverse	and the same of th	c) disordered	d) none of these
Answer. u) unecty b) inverse	"AND"	c) alsoraerea	d) none of these
8: With the two-component system (A & B)	one part of t	he solid phase consists	of?
Answer: a) $A + B$ b) $A + sol$		c) B + solution	d) A + eutectic
			emeene
9: If you add a solute to a solvent, then then	re is a decreas	o in the	lution
Answer: a) S b) H	re is a accreas	c) T	d) μ
	(	9	9 10 40 11
10. Dalton's lawin used to calculate the na	utial puscessus	of # 200 mb = 200	2 = 4
10: Dalton's law is used to calculate the parties and by gas	ruai pressure	c) solid	d) plasma
2 Hower, as additional to gain		c) soliu	d) plasma
Q2/ The Π of a solution containing 4.0 g o	f an unknow	substance nor 0.5 dm	of solution is 103 town at
		i substance per 0.5 din	of solution is 10° torr at
34.0 °C. Find the molar mass of this u	ınknown.		(Marks 25%)
1			
03/ Using the diagram below and the app	ropriate phas	se rule, fill in all the bla	nks and determine the
composition of the all-eutectic mixtur	e, an equilibi	ria, all reversible and ir	reversible processes, and
the name of the regions located to the	right and lef	t of points C, E & AB?	(Marks 25%)



Name of a student . Signature

