1.5	1200:20		30 Thirty on
( 1 5 ) P	Physical_Chemist	try_2 <sup>nd</sup> _YUGS_EV_S	ST 500
	\.\	/	12 00/
Name of a student	OAK SIG	Signature	No
	<u> </u>	(4)	
Mustansiriyah University	3 1		and SEM1-2025_Bologna_Process
Department of Chemistry	/	5	Ald Exam_Class_A_Paper_C
Q1/MCQ test (Answer the		50)	(Marks 50 %)
1: Depression of freezing p			
Answer: a) T	b) H	c) µ	(ds)
2: If you apply the reduced	phase rule to condensed	systems, then the expect	ed value of pressure is?
Answer: (a) zero	b) 1	c) 2	d) 3
			11
3: The reduced phase rule of	can be applied when the i	number of components i	s?
Answer: a) zero	(b) 1)	c) 2	d) 3
4 11/2 1 0 6 4 6 11		(x)/	-112
law?	ving formulas represents	the right equation of r	negative deviation from Raoult's
Answer: a) $P^*_A \neq \chi_A P_A$	b) $P_A = \chi_A P^*_A$	$(c)P_A > AP^*_A$	$d) P_A < \chi_A P_A^*$
5: Addition of a non-volatile	e solute to the pure solver	nt causes a change in?	
Answer: a) $\Delta_{mix}H$	(b) Amiros	c) $\Delta_{mix}V$	d) all of these
		1200	
6: The difference between p		s?	
Answer: (a) $\mu^* = \mu$	b) $\mu^* > \mu$	c) μ*< μ	d) $\mu^* \neq \mu$
7: The relationship between	$\Delta T_f$ and $\gamma_B$ is?		
Answer: a) direct	b) inverse	(c) disordered	d) none of these
	W	0.000	wT
8: With the two-component			ists of?
Answer: (a) A+B	b) A +solution	c) B + solution	d) A + eutectic
0.70			
9: If you add a solute to a so		rease in the of th	
Answer: a) S	(b) H	(3)	d) μ
10. Daltania lauria and ta		4- g to agy t	Type of p
10: Dalton's law is used to a Answer: a) liquid			
Zinswer: a) uquu	(b) gas	c) solid	d) plasma
22 The Π of a solution cor	ntaining 4.0 g of an unkn	own substance per 0.5	dm <sup>3</sup> of solution is 10 <sup>3</sup> torr at
	r mass of this unknown.		
one communication	i mass of this unknown.		(Marks 25%)
. 0			
O3/ Using the diagram belo	ow and the appropriate p	ohase rule, fill in all the	blanks and determine the

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

composition of the all-eutectic mixture, all equilibria, all reversible and irreversible processes, and

Mo\_17-03-2025 With my best wishes Dr Abduljabbar I. R. Rushdi

(Marks 25%)



## Physical\_Chemistry\_2nd\_YUGS\_EV\_ST



Name of a student -- Signature = 0.2014 SIMOL Two component system Type of p -100% A position wt %