	2 Mi	Physical Chemisi	ry_2 <sup>nd</sup> _YUGS_EV_ST_	400
Name of	a student		Signature -	all Jarray No.
	iriyah University	35		EM-2025_Bologna_Process
Deparim	ent of Chemistry		2/2	Exam_Class_A_Paper_C
Q1/MC(	O test (Answer the fol	llowing)	)/50///	(Marks 50 %)
		nt of a solution means	increasing in?	
Answer:	a) T	b) H	c) µ	d)_8
2: If you	apply the reduced ph	ase rule to condensed	systems, then the expected v	alue of pressure is ?
Answer:	a) zero	(b) 1	c) 2	d) 3
3: The re	educed phase rule car	n be applied when the r	number of components is	2.
Answer:	a) zero	b) 1	c) 2	d) 3
4 1171 : 1			bet dollarst	-112
4: Which law?	one of the following	ng formulas represents	the right equation of nega	tive deviation from Raoult's
	a) $P_A^* \neq \chi_A P_A$	b) $P_A = \chi_A P_A^*$	c) PA XAPA	$d) P_A < \chi_A P^*_A$
5: Addition	on of a non-volatile s	solute to the nure solver	nt causes a change in?	1
	a) $\Delta_{mix}H$	b) $\Delta_{mix}S$	c) $\Delta_{mix}V$	d) all of these
6: The di	fference between pui	re and impure solvent i	s? 200	
Answer:	a) $\mu^* = \mu$	b) μ*> μ	c/u*-u	d) $\mu^* \neq \mu$
7: The re	lationship between $\Delta$	$T_f$ and $\chi_B$ is?		
Answer:	a) direct	b) inverse	c) disordered	d) none of these
8: With t	he two-component sv	stem (A & B), one part	of the solid phase consists of	of?
Answer:	a) $A + B$	b) A +solution	c) B + solution	d) A + eutectic
		TO H	and the same of th	
9: If you	add a solute to a solv		rease in the of the so	lution.
Answer:	(a) S	b) H	c) T	d) μ
10. Dalta	m's law is used to an	loulate the nautial succession	( ) Øyo egy	
	a) liquid	culate the partial press b) gas	c) solid	d) plasma
02/The	II of a solution conta	ining 4.0 g of an unkn	own substance per 0.5 dm <sup>3</sup>	of solution is 10 <sup>3</sup> torr at
34.0	°C. Find the molar i	nass of this unknown.	A 2002	(Marks 25%)
. 1	1		De Zeno	An adul 1
Q3/Usin	g the diagram below	and the appropriate i	phase rule, fill in all the bla	nks and determine the
10		-1	ilihria all reversible and ir	

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 -

Two component system Type of p Type of p AB P = 2 Type of p Type of p Type of p Type of p P= 2 Type of p 100% A 6° Composition 9090