	2	Physical_Chemistry	Znd YUGS_EV_ST	40
Name of	a student-	و فَا فُرِ كُولُوا فَ	Spinature	No. 4
	riyah University ent of Chemistry	69		SEM-2025_Bologna_Process Exam_Class_A_Paper_C
Q1/MCQ	test (Answer the follo	owing)	50)	(Marks 50 %)
1: Depression of freezing point of a solution means increasing in?				
Answer:	a) T	b) H	c) n	d) S
2: If you d	apply the reduced pha	se rule to condensed sys	stems, then the expected	value of pressure is?
Answer:	a) zero	(b) 1	c) 2	d) 3
3. The red	duced phase rule can	be applied when the nur	what of components is	2
Answer:	a) zero	b) 1	(c) 2	d) 3
4: Which law?	One of the following	g formulas represents th	ne right equation of neg	ative deviation from Raoult's
	a) $P^*_A \neq \chi_A P_A$	$b) P_A = \chi_A P^*_A$	c) $P_A > \chi_A P^*_A$	$d) P_A < \chi_A P^*_A$
5: Additio		lute to the pure solvent of b) $\Delta_{mix}S$	causes a change in? c) $\Delta_{mix}V$	de all of these
6: The dif	ference between pure	and impure solvent is?	120	
Answer:	a) $\mu^* = \mu$	b) $\mu^* > \mu$	OH H	d) $\mu^* \neq \mu$
	ationship between ΔT			
Answer:	a) direct	b) inverse	c) disordered	d) none of these
8: With th	e two-component syst	tem (A & B), one part of	the solid phase consists	of?
Answer:	a) A + B	b) A +solution	c) B + solution	d) A + eutectic
9: If you o	add a solute to a solve	nt, then there is a decrea	asa in tha af thas	alution
Answer:	a) S	b) H	C) T)	d) μ
10: Dalton's law is used to calculate the partial pressure of phase?				
Answer:		b) gas	c) solid	d) plasma
TO SECURITY OF THE PARTY OF THE	Competition 33	ning 4.0 g of an unknow		of solution is 10 ³ torr at
11 48 - 1		ass of this unknown.	1 Zero	(Marks 25%)
rie C	4	ne of p	02-25	The second second

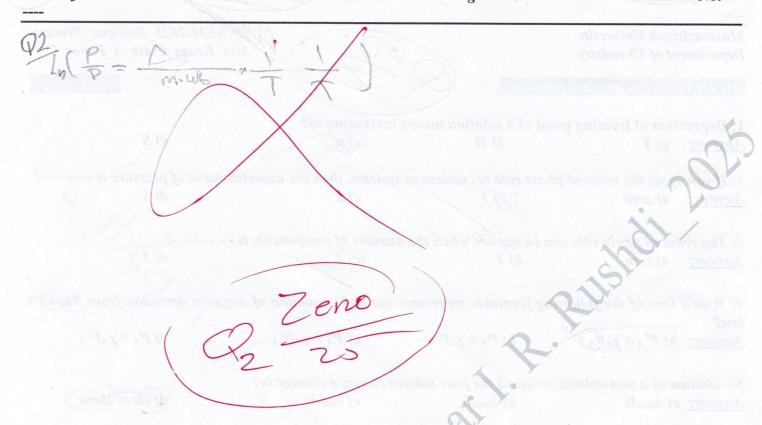
Q3/ Using the diagram below and the appropriate phase rule, fill in all the blanks and determine the composition of the all-eutectic mixture, all equilibria, all reversible and irreversible processes, and the name of the regions located to the right and left of points C, E & AB? (Marks 25%)

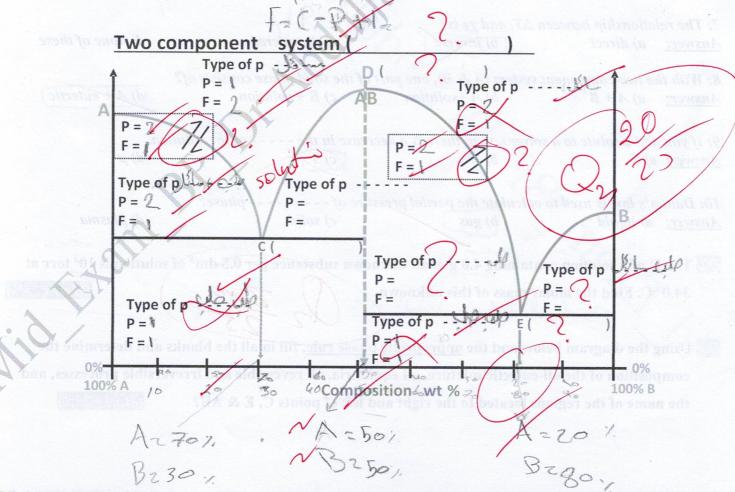


Physical Chemistry 2nd YUGS EV ST



Name of a student Signature -





Mo_17-03-2025 With my best wishes Dr Abduljabbar I. R. Rushdi