	Mal	& Phise				30 (1/2	rty on
	( Z) / MO	Physical_Che	mistry_2 <sup>nd</sup>	YUGS_EV_	/ 0	100)	
Namassa		CEIDIA		G* .	3	05 N	(12
-	iyah University	- JAO STR	3773	- Signature	14		-No.\10
	nt of Chemistry		90			25_Bologna_1 Class_B_Pape	
	of chemismy				- V	ciuss_B_1 upo	-A
	test (Answer the foll	Mary Mary Mary Mary Mary Mary Mary Mary	メン		X.	(Marks	50 %)
	luced phase rule is int	Lawrence Control of the Control of t				3	
Answer:	a) p & T	b) F & T	c) p	& conc.	(	d) T & conc.	200
	lution follows			/			M.
Answer:	a) Raoult's	b) Trouton's	OH	lenry's taw		d) Van't Hoff	's law
		لا يولو الرالان	1			AA	,
	ee phases of H2O in the		-	. /		-01	
Answer:	a) at 1 atm	b) over 1 atm	(c) b	elow Tatm		d) at any press	sure
4. 12	-1-4' CINO : C	16			. 1	2,	
Answer:	solution of HNO3 is fo a) 1 C	b)2 C	c) 3	C	0	d) 4 C	
			3		200	01	
Answer:	any phases are there v a) zero		f variants is	zero and the n	umber of c	omponents is	one?
Answer.	u) zero	b) 1	(0)	1		a) 3	
6. The Cla	usius Clanavron agui	ution can be applied	d sub ass the am	. in an amilita		ca.	
	usius-Clapeyron eque	b) S & L		e is an equilibri		en one of the f d) S & S	ollowing?
		A A	1	100		1) 5 & 5	
	the following formula	s represents the rig	ht equation	of Henry's law	?		
Answer: (	a) PA = XAP*A	$(b) P_A > \chi_A$	$P^*_A$	c) PA	$_{1}<\chi_{A}P^{*}_{A}$	d) none	e of these
	is used to calculate t	he molar mass of th	he?				
Answer:	a) non-volatile solute	b) pure	solute	c) pure solve	ent	a solu	fion
9: Osmosis	s pressure exerts when	the solvent transfe	ers to the?				
Answer:	a) volatile solute	b) non-volatile	e solute	Opure solve	ent	d) solu	tion
10- One of	the most important b	enefits of measurin	$g \Delta VP, \Delta T_b$	$\Delta T_f$ and $\Delta \Pi$ is	to calcula	te of B	?
Answer:	a) M	b) m	c) V			Do CT	10
	W.						
	(- 10 m)	Vo					
Q2/ The va	apor pressure (VP) o	f a substance is 30	torr at 250	K. At what ten	nperature	will the subst	ance have
	150 torr? ΔvapH is 45		eun-refront	Page 1	1		
.,	(D) 200	A Mor				(Marks 25%)	
ide il	I sont	(-76)	15 15 0	رفغ ريد	roles.	د س ح	
03/ Plot th	he phase diagram of					1000	er A
	s at (-5°C) and B fr	m 1 Harrist				1 2 0	11 2 1
% of 2	A and that the eutect	ic melts at (- 10°C	), then labe	all the parts (	p & F) of t	the diagram?	Marks 25%)
3:	-1	100 js 20					

Thur\_13-03-2025

**Best wishes** 

Dr Abduljabbar I. R. Rushdi

قامره الماور المخترلة B % 100% 4 0/2 20/4 20 601. 50% 42/2 14 07 of other od A % 6% 70% 30% W/o 50% 20% 70% 80% 90% 100%  $\mathbb{C}$ ), then label all the parts  $(p \otimes F)$  of the diagram?