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Physical_Chemistry_2nd_YUGS_EV_	ST 100
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Name of a student Signatural Signatural	No
	d SEM-2025_Bologna_Process
Department of Chemistry	id_Exam_Class_B_Paper_A
01/MCQ test (Answer the following)	(Marks 50 %)
1: The reduced phase rule is interested in two variants?	
<u>Answer:</u> a) p & T b) F & T c) p & conc.	d) T & conc.
2: Ideal solution follows law.	O'V.
2: Ideal solution followslaw.	
Answer: a) Raoult's b) Trouton's c) Henry staw	d) Van't Hoff's law
الاطوار للانه لالم للنعي عنه الله	11
3: The three phases of H ₂ O in the phase diagram meets?	. 0
Answer: a) at latin b) over 1 atm c) below 1 atm	d) at any pressure
4: Liquid solution of HNO3 is formed from?	119
	2016
Answer: a) 1 C b) 2 C c) 3 C 5: How many phases are there when the number of variants is zero and the number of variants is zero and the number of variants.	صاهوعيد الاجوار
	umber of components is one?
<u>Answer:</u> (a) zero b) 1 c) 2	alid lane USa
6: The Clausius-Clapeyron equation can be applied when there is an equilibri	
Answer: a) L & L (b) & & L c) G & L	d) S & S
عراض الله مثل عانون هزي	
7: One of the following formulas represents the right equation of Henry's law	?
	$(1 < \chi_A P^*_A)$ d) none of these
نسل المولاج لحياب الجرائي في	The same of the sa
8: Molality is used to calculate the molar mass of the?	
Answer: a) non-volatile solute b) pure solute c) pure solve	d) solution
المخفا لالموري بيوله علما يتحوك الماذيب	
9: Osmosis pressure exerts when the solvent transfers to the?	
Answer: a) volatile solute b) non-volatile solute c) pure solve	
10- One of the most important benefits of measuring ΔVP , ΔT_b , ΔT_f and $\Delta \Pi$ is	
Answer: a) M b) m	d) p
	/ P
_ colid lision Solies To val	
Q2/ The vapor pressure (VP) of a substance is 30 torr at 250 K. At what ten	المادك الحوارك درمة م
	aperature win the substance have
VP of 150 torr? ΔvapH is 45 kJ molt?	(Marks 25%)
Zerr	
CZ BB A	(un ecide de
13 Plot the phase diagram of the system (A & B) assumed that (A & B) do not react with each other. A	
freezes at (-5°C) and B freezes at (7°C), and that an eutectic mixture is formed when the ratio is 70 wt	
% of A and that the eutectic melts at (-10°C), then label all the parts (p & F) of the diagram? (Marks 25%)	
Tera Joseph Abid a's l'alla 80	
Thur_13-03-2025 3 23 Best wishes	Dr Abduljabbar I. R. Rushdi
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