Physical_Chemistry_2nd_YUGS_EV_ST
Name of a student No. 7
Market in the University
Mustansiriyah University  Department of Chemistry  Midd Exam Class B Paper B
Department of Chemistry  Mid Txam_Class_B_Paper_B
Ol/MCO test (Answer the following)  Aslabilist (1997) gold and the following)  (Marks 50 %)
1: If the relation between the amount of solute and the $\Pi$ is proportional, then the right equation is?  Answer: (a) $\Pi \alpha VP$ (b) $\Pi \alpha BP$ (c) $\Pi \alpha V$ (d) $\Pi \alpha [B]$
2: If the deposition is dominated, then one of the following will be true.  Answer: a) $\Delta_{vap}H = +ve$ b) $\Delta_{vap}H = -ve$ c) $\Delta_{sub}H = +ve$ d) $\Delta_{sub}H = -ve$
3: How many phases are there when the number of variants is one and the number of components is one?
Answer: a) zero (b) 1) c) 2 d) 3
4: Which One of the following formulas represents the right equation of positive deviation from Raoult's law?
Answer: (a) $P^*_A \neq \chi_A P^*_A$ (b) $P_A = \chi_A P^*_A$ (c) $P_A > \chi_A P^*_A$ (d) $P_A < \chi_A P^*_A$
plus colucto de la colucto
5: Addition of a non-volatile solute to the pure solvent causes a change in?
Answer: a) $\Delta_{mix}H$ b) $\Delta_{mix}S$ c) $\Delta_{mix}V$ d) all of these
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6: How many p and F of CO2 when it is positioned at the boundary of the phase?
Answer: a) $p = 2 \& F = 1$ b) $p = 3 \& F = 0$ c) $p = 1 \& F = 2$ d) $p = 2 \& F = 2$
7: Liquid water and ice are formed from?
Answer: a) 1 C b) 2 C c) 3 C d) 4 C
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8: With the two-component system (Pb & Ag), one part of the solid phase consists of?  Answer: (a) pb + 47
Answer: (a) pb + Ag b) Pb + solution c) Ag + solution d) Pb + eutectic
9: If you add a non-polar solute to a non-polar solvent, then the expected type of mixture will be law.  Answer: a) Van't Hoff's b) Raoult's (c) -ve form Raoult's d) + ve form Raoult's
~ 12/1/2/12 De 100/1/20 VAI 20 W/6/1/3/
10: If it is required to calculate the YA, then one of the following laws will be applicable?
Answer: a) Raoult b) Henry c) Dalton d) Van't Hoff
- 1760 PA
The VP of pure benzene is 75 mmHg at 20 °C, and VP of pure toluene is 25 mmHg at 20 °C. The
mole fraction of each pure component is 0.5. What is the partial VP of each component after mixing?
(Marks 25%)
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. F. & A.P.2



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Two component

