



Mid Quiz

Physical_Chemistry_2nd_YUGS_EV_ST

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2nd SEM-2023_Bologna_Process
Mid_Exam_Class_A_Paper_C

Q1/MCQ test (Answer the following)

نقطة зам凍د لجذب ازدادت عن

1: Depression of freezing point of a solution means increasing in?

- Answer: a) T b) H c) μ d) S
اذا تم تغيير قاعده الماء، اذ متغير فان?

2: If you apply the reduced phase rule to condensed systems, then the expected value of pressure is -----?

- Answer: a) zero b) 1 c) 2 d) 3
قاعده الماء المتغير يمكن تطبيقها عندما يكون

3: The reduced phase rule can be applied when the number of components is -----?

- Answer: a) zero b) 1 c) 2 d) 3
او من العبر مثل، مقادير العصي و الماء اذ تكون اثواب

4: Which One of the following formulas represents the right equation of negative 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) $P_A < \chi_A P_A^*$
انها في مقدار خصائص الماء متغير

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
الفرق ست اذ يزيد الماء غيرها

6: The difference between pure and impure solvent is?

- Answer: a) $\mu^* = \mu$ b) $\mu^* > \mu$ c) $\mu^* < \mu$ d) $\mu^* \neq \mu$
للتغيرات اذ الماء اكبر

7: The relationship between ΔT_f and χ_B is?

- Answer: a) direct b) inverse c) disordered d) none of these
رضام متغير على مكونات (A) اذ اجزء اذ الماء اذ الماء

8: With the two-component system (A & B), one part of the solid phase consists of?

- Answer: a) A + B b) A + solution c) B + solution d) A + eutectic
ازمة اهانة مذاب الماء يحصل الماء

9: If you add a solute to a solvent, then there is a decrease in the ----- of the solution.

- Answer: a) S b) H c) T d) μ
كانون دالتون سيدر مركب الماء اذ الماء

10: Dalton's law is used to calculate the partial pressure of ----- phase?

- Answer: a) liquid b) gas c) solid d) plasma
افخط ازموسي هاملتون يحتوي على ٤٠٠ صناديق وبنها ينتهي

Q2: The Π of a solution containing 4.0 g of an unknown substance per 0.5 dm³ of solution is 10³ torr at 34.0 °C. Find the molar mass of this unknown.

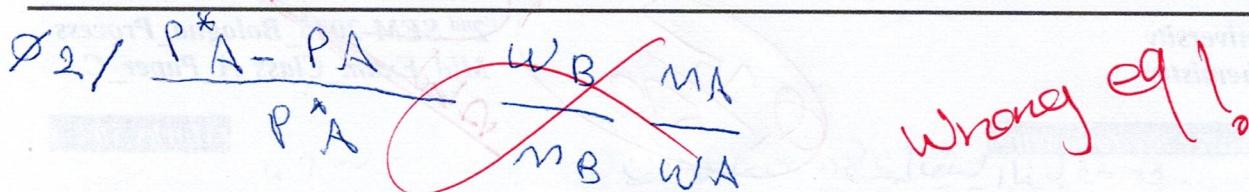
الضغط اكتواد مذيب (Marks 25%)

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%)



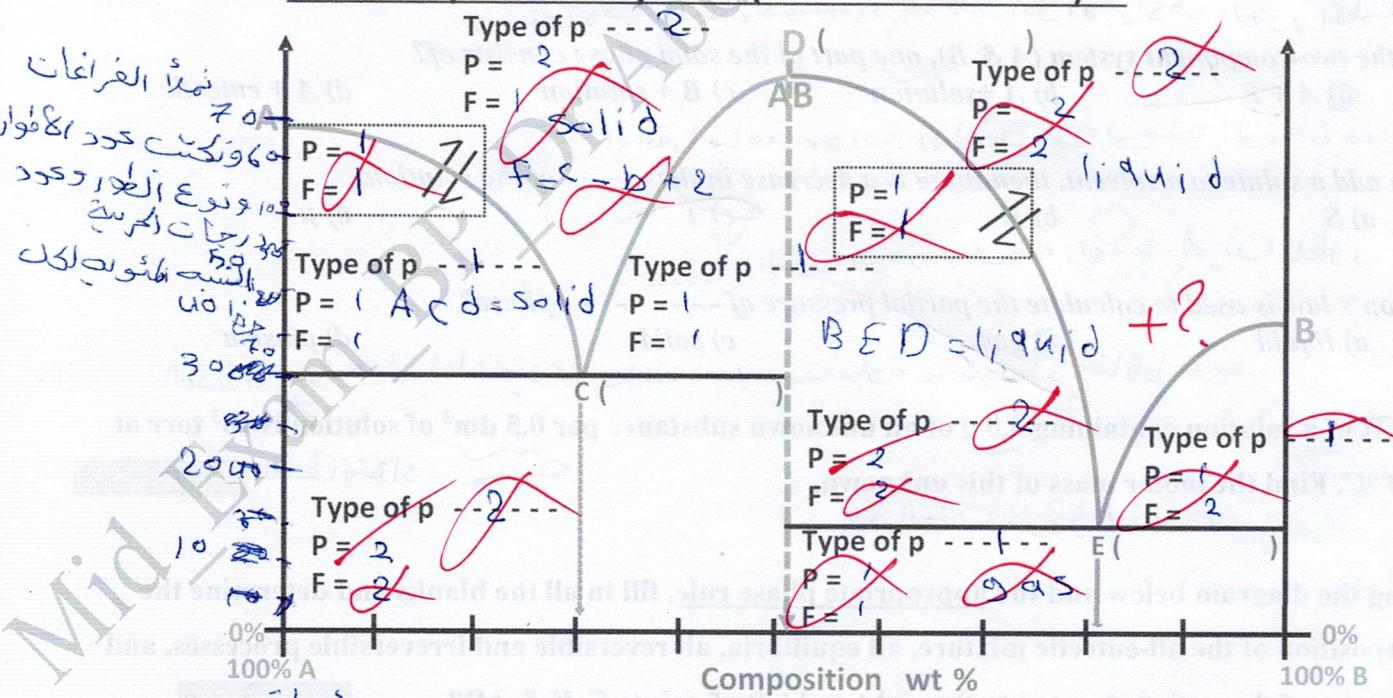
Name of a student _____ Signature _____ No. _____



Dr zero
Dr 25

Q3 25

Two component system



النحو الثاني (A) ٧٠٪ فاصلة هترى (8) نحافت
النحو الثالث (B) ٣٥٪ قاعدة راولت