

臺北醫學大學九十學年度研究所碩士班招生考試題目卷

科目：物理化學

九十學年度研究所碩士班招生筆試

所別：藥研

考科：物理化學

題目試卷共壹張，本試卷為第壹張

1. Regarding the solubility of a substance, if given heat of fusion and melting point of a substance, please describe how to predict the solubility of a substance. (10) Furthermore, please describe methods for enhanced solubility of a substance. (5) Thirdly, could you describe the influenced factors of inaccurate for prediction? (5)
2. If a sealed, rigid container did not work properly, please describe what would be the problems from thermodynamics' point view. (15)
3. Please describe the reasons of stability of eutectic mixture and solid dispersion. (15)
4. Could you give the explanation of prediction of "Dusting Storm" from Mongolia? (15)
5. What are the law of thermodynamics (first, second, third)? (10) and the application of each law (10)
6. Please describe the van't Hoff equation, the application and limitation. (15)