

系所組別： 分子醫學研究所

考試科目： 生物技術

考試日期：0308，節次：2

※ 考生請注意：本試題 可 不可 使用計算機

- 1. Please describe the methods and compositions for improving the specificity of polymerase chain reaction (PCR). (20%)**
- 2. Please describe the methods to remove the nucleic acids during preparation of protein. (10%)**
- 3. Please describe the common methods of protein purification and separation. (10%)**
- 4. Please list the safety measures to keep the protein activity. (10%)**
- 5. Please describe the basic requirements in preparation of PCR product for sequencing. (10%)**
- 6. Please describe the indicators of RNA quality. (10%)**
- 7. Please list the techniques applied in the measurement of RNA expression. (10%)**
- 8. If X gene is suspected to function as an oncogene in liver cancer, please design appropriate experiments to confirm the hypothesis. (20%)**