編號:

199

國立成功大學九十八學年度碩士班招生考試試題

共 / 頁 第/ 頁

系所組別: 醫學工程研究所丙、丁組

考試科目: 生物化學

考試日期:0307, 箭次:2

※ 考生請注意:本試題 □可 ☑不可 使用計算機

- 1. Please show the α and β anomer of glucose. (10%)
- 2. What are the differences in composition between glycoproteins and proteoglycans? Please also name an example for each category. (10%)
- 3. Please write the process of glucose phosphorylation and its meaning in a live cell. (10%)
- 4. How to play the enzyme activity of a dehydrogenase and how to estimate it? (10%)
- 5. Please describe the difference between gram positive and negative bacteria in detail. (10%)
- 6. What is the differnces between cytochrome and iron-surfur protein? (10%)
- 7. Please describe the electron transport chain. (10%)
- 8. Hemoglobin and myoglobin are oxygen-binding proteins, please describe their roles and the cooperation in our body. (10 %)
- 9. Please describe the following analytical techniques. (10%)
 - (1) High performance liquid chromatography
 - (2) Affinity chromatography
- 10. Please give an example to explain what is isoelectric point. (10%)