編號: 65 國立成功大學 102 學年度碩士班招生考試試題	共1頁,第1頁
系所組別:生物科技研究所甲、乙組 考試科目:生物化學	考試日期:0224,節次:2
※考生請注意:本試題不可使用計算機	- 5 武口 知 ・ 0224 ・ 60 八 ・ 2
Essay Questions 問答題 總分100分	
1. Please explain how to sequence a protein. (9 points)	
2. Please explain how to determine the molecular weight of a protein. (9	points)
3. Please explain how the sodium-potassium pump operates. (9 points)	
4. Please give an overview of pyruvate oxidation and the citric acid cycle	e. (9 points)
5. Please give an overview of Calvin cycle, in the dark reaction of the ph	otocynthesis. (9 points)
6. Please explain how the ammonia transports and urea synthesis. (9 point	nts)
7. Please descript the protein structure of antibodies. (9 points)	
8. Please explain what is triacylglycerols, waxes, glycerophospholipids, glycosphingolipids; and draw the chemical structures of them. (9 points)	
9. Please give a brief definition and an example of the following enzyme a. Oxidoreductases	es. (18 points)
b.Transferase	
c. Hydrolases	
d. Lyases	
e. Isomerases f. Ligases	
10. Please explain what is "metabolomics" and give an example. (10 poi	nts)