

國立成功大學

112學年度碩士班招生考試試題

編 號：264

系 所：生理學研究所

科 目：生理學

日 期：0207

節 次：第 2 節

備 註：不可使用計算機

※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. The autonomic nervous system (ANS) is divided into sympathetic and parasympathetic components. Please compare at least seven different features of the sympathetic and parasympathetic components of the ANS. (14 分)
2. When the arterial baroreceptors decrease their firing rate, what are the alterations in autonomic outflow and cardiovascular function? (14 分)
3. The skeletal muscle can undergo tetanic contractions, however, the cardiac muscle cannot. Why? (12 分)
4. Please name one posterior pituitary hormone and one anterior pituitary gland hormone and respectively illustrate their main functions. (12 分)
5. List all the procoagulant and anticoagulant effects of thrombin. (12 分)
6. During our staying in the high altitude, what are the effects of a decreased arterial P_{O_2} to our body and what are the acclimatization of our body to the hypoxia of high altitude? (12 分)
7. What is the important role of kidney to acidosis or alkalosis? (12 分)
8. Please list five important pancreatic digestive enzymes and describe their actions and substrates. (12 分)