

國立成功大學

111學年度碩士班招生考試試題

編 號： 268

系 所： 生理學研究所

科 目： 生理學

日 期： 0220

節 次： 第 2 節

備 註： 不可使用計算機

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第 1 頁，共 1 頁

※ 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. Please contrast the differences between graded and action potentials. (10%)
2. Please describe glutamatergic synaptic plasticity caused by tetanic stimulation (i.e.; long-term potentiation). (10%)
3. Please describe the refractory period of neuronal action potentials. (10%)
4. Please describe the significant role of neuromuscular junction. (10%)
5. Please describe the significance of hypothalamo-hypophyseal portal vessels in the function of endocrine system. (10%)
6. Please list at least five clinical measurements of cardiac function. (10%)
7. A good breakfast can help us to meet an energetic day. Student Micky had a good taster Chinese style breakfast this morning in order to energetically attend the entrance examination of master degree. Please describe the digestive and absorptive processes related to this Chinese style breakfast within Micky's body. (10%)
8. Please list three hormones/factors which are secreted by kidney into the blood and describe the main physiological function of each hormone/factor. (10%)
9. Micky got hurt and infection due to a traffic accident. Please describe the responses of Micky's immune and cardiovascular systems to this event. (10%)
10. When we exercise, enhancement of respiration will cause more oxygen within our body. Please list factors to stimulate the ventilation during exercise. (10%)