

# 國立成功大學

## 112學年度碩士班招生考試試題

編 號： 303

系 所： 細胞生物與解剖學研究所

科 目： 生理學

日 期： 0207

節 次： 第 1 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. Please describe how actional potential works in neuron, and why it is so important! (12%)
2. Please describe how water is reabsorbed, and how it couples to sodium reabsorption! (15%)
3. Please describe the difference between insulin-dependent and noninsulin-dependent diabetes mellitus! (10%)
4. Please describe how urine is formed in kidney! (16%)
5. Please describe how hypothalamus-pituitary-testis axis is activated to produce sperm regarding hormone regulations and cell types! (18%)
6. Please describe how HCl secretion is regulated in stomach! (12%)
7. Please describe ovarian cycle and uterine (menstrual) cycle with hormonal regulations and cell types! (17%)