

國立成功大學
110學年度碩士班招生考試試題

編 號：321

系 所：細胞生物與解剖學研究所

科 目：生理學

日 期：0203

節 次：第 1 節

備 註：不可使用計算機

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※ 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 why the **Intracellular Compartment** is needed inside cells? (10 points)
2. Please draw the structures of **Heart** and main **Vessels** connected to heart, and **course of blood flow** through the heart chambers and heart valves! (15 points)
3. Please illustrate the feedback regulation of the **Hypothalamic-Pituitary-Ovarian Axis** in females! Stimulatory effects should be shown by “+” and negative feedback inhibitory effects are shown by “-“. (20 points)
4. Please demonstrate how **Muscle does the Contraction**, regarding the relaxed state and the contracted state of a sarcomere! (15 points)
5. Please describe the **Renin-Angiotensin** system in detail! (25 points)
6. Please illustrate **Parasympathetic Nervous System** and describe the functions in detail! (15 points)