

國立成功大學

111學年度碩士班招生考試試題

編 號：300

系 所：護理學系

科 目：生理學

日 期：0220

節 次：第 3 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 compare the similarities and differences between graded potential and action potential. (10%)
2. Hormones play a critical role in our growth. Please list at least five kind of hormones and describe their key functions to maintain growth. (10%)
3. Please list at least five clinical methods to measure the cardiac function and describe the main functions of these methods. (10%)
4. Please name a portal vein system and describe its significance to physiological function. (10%)
5. A state of hypoxia and even a mountain sickness may be present when we climb a high mountain. However, when we live in the area of high altitude for a period of time, our body will be adapted to this hypoxic environment. Please describe how can our body be adapted to this hypoxic environment. (10%)
6. Erythropoietin (EPO) is often administered to a patient who suffers from chronic kidney disease and receives hemodialysis. Why? (10%)
7. Please list the main functions of each organ in the digestive system. (10%)
8. Please describe the critical factors to control insulin secretion. (10%)
9. Please describe the neural regulation on erection and ejaculation. (10%)
10. Please describe the important role of phagocytes in the innate immune responses. (10%)