國立成功大學 108 學年度碩士班招生考試試題

編號: 318

所:護理學系

考試科目:生理學 考試日期:0224,節次:3

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. The synapse plays an important role in the neuronal communication. Please describe and explain how a neural signal is transmitted between two neurons via a synaptic mechanism. (15%)
- 2. According to the basis of structure, contractile properties and control mechanisms, please compare the major difference among skeletal muscle, smooth muscles and cardiac muscle. (15%)
- 3. Hypothalamus is an important endocrine organ. Please name the hormones secreted from hypothalamus and describe their major functions. (15%)
- 4. There are important differences between action potentials of cardiac muscle cells and those in nodal cells of the heart conducting system. Please describe these important differences. (15%)
- 5. Hemostatic mechanisms are most effective in dealing with injuries in small vessels. Please describe the underlying processes or mechanism involving in hemostasis. (15%)
- 6. Utilization of oxygen in the metabolism of organic molecules by cells is crucial for normal cell function. Please explain how a liver cell can receive oxygen from air via respiration to play its normal function. (15%)
- 7. After drinking 1000 ml of lemon tea, please describe the three basic renal processes leading to the formation of urine. (10%)