編號:

388

國立成功大學九十七學年度碩士班招生考試試題

共 | 頁,第 | 頁

系所: 護理學系甲組

科目: 生理學

本試題是否可以使用計算機: □可使用 , ☑不可使用

(請命題老師勾選)

考試日期:0302, 節次:3

1. What effect does increasing the frequency of action potential in a skeletal-muscle fiber have upon the force of contraction? Explain the mechanism responsible for this effect. (15%)

- 2. Describe in detail the sequence of events that leads to hyperpolarization of the photoreceptor cell membrane when light shines on the rod cell. (20%)
- 3. Draw a flow diagram summarizing the factors affecting arteriolar radius. (15%)
- 4. What are the two major controls of aldosterone secretion, and what are this hormone's major actions? (15%)
- 5. How does renal hydrogen-ion secretion occur, and how does it achieve renal bicarbonate reabsorption? (15%)
- 6. List five inputs controlling insulin secretion, and state the physiological significance of each. (20%)