編號:

380

國立成功大學九十八學年度碩士班招生考試試題

共/頁,第/頁

系所組別: 行為醫學研究所乙組

考試科目: 行為神經科學

考試日期:0308,節次:3

※ 考生請注意:本試題 □可 ☑不可 使用計算機

- 1. Using the knee-jerk reflex as an example (extensor and flexor muscles) to describe the roles of inhibitory inter-neurons in feed-forward inhibition and feedback inhibition. Provide a physiological example that you know for feed-forward inhibition and feedback inhibition (in addition to the above-mentioned knee-jerk reflex) and describe biological significance for each case (40%)
- 2. Explain the following terms (40%, 5%) for each)
 - 2-1. Node of Ranvier
 - 2-2. Afferent neurons
 - 2-3. Ionotropic receptors
 - 2-4. Field EPSP
 - 2-5. Docking
 - 2-6. Presynaptic facilitation
 - 2-7. Thalamus
 - 2-8. Sensory receptors
- 3. Describe the design of the elevated plus maze and its application. (20%)