

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：0224，節次：3

※ 考生請注意：本試題不可使用計算機

- 1. Given the finding that the presence of specific odors can protect mice from the stress-produced detrimental effect on the formation of neural progenitor cells in the dentate gyrus, how would you design an experiment to study the involvement of the olfactory systems (including the main and accessory olfactory systems) in this case? (25%)**
- 2. A previous report indicated that repeated cocaine administrations caused an elevation of interleukin-6 (IL-6) concentration in the brain. In an attempt to study the role of high IL-6 concentration in modulating the sensitization of the hedonic effect of cocaine, what kind of study will you design? (25%)**
- 3. Describe the structure of the cochlea. (25%)**
- 4. How to measure rodents' fear? (25%)**