## 國立成功大學八十二學年度碩士班入灣試(菜姓所生物学試題)共/貝

## 請簡答下列問題(每題十分)。

- 1. 請敘述由外觀上分別魚類雌雄的方法。
- 2. 俗云:「人無法像牛一樣的吃草維生」,請問爲什麼?
- 3. 請介紹植物培養 (plant culture)的方法。
- 4. 生物體內的固有物質,不論是激素(hormone)或神經轉訊物(neurotransmitter), 皆在微量即可致良好的生理效果;請說明主要原因。
- 5. 請比較「哺乳類動物」與「非哺乳類動物」的異同點。
- 6. Briefly describe the stages of mitosis and cytokinesis in an animal cell.
- 7. Describe the general architecture of the plasma membrane of cell.
- 8. Outline the function of eukaryotic RNA polymerases.
- Describe the lytic cycle of viral replication including adsorption, penetration, replication and release.
- 10. Describe the events occuring during chemical synaptic transmission in a nervous system.