國立中山大學100學年度碩士班招生考試試題

科目:生態學【生科系碩士班丙組】

I. 解釋名詞,共 20 分 (20%)

- 1. La Niña (5分)
- 2. Phenotypic plasticity (5分)
- 3. Green house gases (5分)
- 4. Water use efficiency (5分)

II. 問答題,共80分(80%)

- 5. Discuss at least four major factors in deep that will affect biodiversity. (20分)
- 6. Discuss four important characteristics of species that affect their potential rates of colonization and extinction. (20 分)
- 7. Explain why an invasive species represent a threat to native species. Discuss and give three examples of invasive species in Taiwan threatening the ecology of native species. (20分)
- 8. Discuss and give examples of bottom-up and top-down control in food chains.

 Design a series experiments to test these hypotheses. (20分)