

題號： 402
科目： 生態學(C)
節次： 6

國立臺灣大學 112 學年度碩士班招生考試試題

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共 1 頁之第 1 頁

一、名詞解釋 (各 5 分，共 45 分)

1. Native species
2. Invasive species
3. Endemic species
4. Ecological niche
5. Realized niche
6. Age-structured population
7. Leslie matrix
8. Ecological succession
9. Tropical cascade

二、簡答題(共 55 分)

1. Please explain what is a metapopulation and speculate how dispersal among patches in a metapopulation can influence local population dynamics. (10%)
2. Please explain why high biodiversity is important to maintain ecosystem health. Please depict the underlying mechanisms of biodiversity effects on i) ecosystem functioning and ii) stability. (10%)
3. 人類活動對自然環境產生影響，生態系統與人類福祉息息相關，也衍伸生態系統服務之說法。請問何謂生態系統服務？(20%)
4. 請問何謂聖嬰現象？並說明聖嬰現象會對海洋生態系與漁業產生的可能影響或舉例已知影響。(15%)

試題隨卷繳回