科目:生態學(B)

題號:100

共一取第全員

- 一、 解釋名詞 (每題四分,共40分)
- 1. biogeochemical cycle
- 2. euryhaline
- 3. competitive exclusion
- 4. effective population size
- 5. species-area relationship
- 6. allelopathy
- 7. facilitation model of succession
- 8. Lotka-Volterra models
- 9. trophic cascade
- 10. ecological efficiency
- 二、問答題 (每題 20 分, 共 60 分)
- 1. Of the three types of ecological pyramids (biomass, numbers, and energy flow), which one is always shaped like a pyramid, with the largest amount in the producer trophic level? Why?
- 2. What is the difference between density-dependent and density-independent population regulation? Explain.
- 3. How might an ecologist experimentally determine the critical resource level in a system with two resources?