

1. 許多人反對在保護區內開闢公路，但是接受鐵路對生態衝擊較小的看法，因此不反對建築鐵路，即使是穿越保護區中心，請陳述您的看法(贊成或反對)，並詳述理由(10%)
2. 台北翡翠水庫的興建讓許多原生植被被淹沒，其中特有種烏來杜鵑更因而從野外絕滅，現在聽聞環抱水庫的一些村落附近人家在庭園仍種植烏來杜鵑，為復育此一特有種，在經費不受限制的情況下，請由生態及遺傳多樣性的角度擬定一復育計畫(10%)
3. 請陳述生物多樣性保育與生物技術之間可能的良性交流及互動，而能為人類帶來福祉(10%)
4. 解釋名詞 (20%) 每題四分: 請詳細解釋下列名詞及其效應
 - A. random genetic drift
 - B. habitat fragmentation
 - C. inbreeding depression
 - D. invasive species
 - E. balancing selection
5. What is a meta-population? Why is this concept important, and how it is related to conservation biology? (15%)
6. Describe, as much as you can, the major contributions of any **two** of the following three scientists to the field of conservation biology: **Aldo Leopold, Michael Soule, Dan Simberloff** (10%)
7. Distinguish *ex situ* and *in situ* approaches in conservation biology, and discuss their respective significances (10%)
8. What are the three most significant factors causing species extinction and loss of biodiversity? Provide an example, as much detailed as you can, from Taiwan of each of three factors (15%)