

本試題是否可以使用計算機：可使用，不可使用（請命題老師勾選）

**1. Short essays: (25%)**

A. Why long-term monitoring program is important to conservation of a threatened population? When the program should be implemented? (10%)

B. How do you know that a population decline is due to habitat fragmentation? To revert the decline, what will you do? Explain you answers. (10%)

C. What is CITES? What is it for? (5%)

**2. Multiple choice (Please choose a better answer) (8%)**

\_\_\_\_\_ 1. Introduction of alien or exotic species into new ecosystems occurs by

- a) colonization when new settlers arrive in an area.
- b) accidental transport by ship or plane without anyone's knowledge.
- c) agricultural and horticultural activities.
- d) All of the above are correct.

\_\_\_\_\_ 2. The use of wheat, corn, rice, and other crops derived from wild ancestors is an examples of \_\_\_\_\_ value drawn from biodiversity.

- a) agriculture b) medicinal c) consumptive use d) indirect e) no

\_\_\_\_\_ 3. The regulation of climate, cleansing the fresh water, and support of ecotourism are examples of \_\_\_\_\_ value drawn from biodiversity.

- a) agriculture b) medicinal c) consumptive use d) indirect e) no

\_\_\_\_\_ 4. The main reason that bird, fish, plant, and insect species we barely knew have gone extinct has been due to

- a) hunting b) farming c) insecticides such as DDT d) habitat destruction e) scientific collecting

3. Please introduce one person, one organization, one journal and one website dealing with conservation and/or biodiversity (8%)

4. Give an endemic plant species distributed at the following areas in Taiwan (9%)

Alpine area

Mild-altitude area

Costal area

(背面仍有題目,請繼續作答)

編號： 73 系所：生物多樣性研究所

科目：保育生物學

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5. Describe (a) one conservation event or issue that happened within the last five years in Taiwan; (b) its final results; and (c) the better way you can think of to prevent or change the results. Please note that your answers should be specific and include, as much as you can, the information of who, what, when, where, how, and why (9%)
6. Discuss the relationships between conservation and human populations (8%)
7. Discuss how global warming may affect biodiversity of the world now and the future (8%)
8. How have anthropogenic threats to biodiversity changed over the human history? Which do you expect to be the most important threats in 2010? (7%)
9. Please define and discuss the effects of "bottleneck events" and "founder's events" (10%)
10. When a species suffers inbreeding depression, what will you do to stop the species/ population decline? (8%)