



THE OPEN UNIVERSITY OF SRI LANKA  
B.Sc. DEGREE PROGRAMME – LEVEL 5  
FINAL EXAMINATION – 2012/2013  
COURSE TITLE – CONSERVATION AND MANAGEMENT OF BIODIVERSITY  
COURSE CODE – ZLU 3182/ZLE 5182  
DURATION – TWO HOURS

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DATE – 11. 06.2013

TIME - 1. 00 pm – 3. 00 pm

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**ANSWER ANY FOUR (4) QUESTIONS. WHEREVER NECESSARY ILLUSTRATE ANSWERS WITH CLEARLY LABELED DIAGRAMS.**

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1. Explain how the value of biodiversity may be both an economic and biological determination for development.
2. Explain how in-situ and ex-situ conservation methods are used to maintain biodiversity.
3. What is the IUCN Red List System? Provide examples of 3 species that would be classified as having different types of rarity. How would conservation strategies differ for these three species?
4.
  - i. Distinguish between mass extinction and background extinction.
  - ii. What are the possible causes of past mass extinctions?
  - iii. "Extinction is a natural process, and we shouldn't worry about the current increased loss of biodiversity". Respond to this statement by either supporting it or refuting it in a clear, logical argument.
5. Discuss the issues related to population uncertainty of "small populations".. How can this knowledge be applied to planning of protected areas.
6. Write short notes on any two of the following
  - a. Multilateral Environmental Agreements.
  - b. Bioprospecting.
  - c. Protected areas.
  - d. Measuring and monitoring biodiversity.

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