



THE OPEN UNIVERSITY OF SRI LANKA
 B.Sc. DEGREE PROGRAMME = LEVEL 5
 FINAL EXAMINATION – 2012/2013 ¹⁵ ₁₆
 COURSE TITLE – CONSERVATION AND MANAGEMENT OF BIODIVERSITY
 COURSE CODE – ZLU 3182/ZLE 5182
 DURATION – TWO HOURS

DATE – 28. 06.2016

TIME - 1. 00 pm – 3. 00 pm

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

1.
 - i. Explain the term “Genetic Diversity”.
 - ii. Discuss the importance of Genetic Diversity in biodiversity conservation
2. “Biodiversity is distributed heterogeneously across the Earth. Some areas have a very high biodiversity while others are virtually devoid of life and most fall somewhere in between”.
Explain this phenomenon.
3.
 - i. What are Multilateral Environmental Agreements?
 - ii. Briefly explain five important environmental issues in Sri Lanka
 - iii. Name six biodiversity related Multilateral Environmental Agreements and describe their functions and drawbacks in the implementation process.
4. A private land owner has two blocks of land equal in size in the montane region of Sri Lanka. The owner is interested in protecting one land and developing the other as a tourist lodge and a resort. Both are equally suitable for development, and the owner wants therefore to protect the block with greatest conservation value to have an effective nature reserve. It is necessary to conduct a study and provide guidance in this matter. How would the study be conducted and how would the data influence the recommendation.
5.
 - i. What is Traditional Ecological knowledge (TEK).
 - ii. Critically evaluate the contribution from traditional knowledge for sustainable development.
 - iii. Briefly explain the relationship between TEK, biopiracy and patenting in Intellectual Property Rights (IPR's).
6. Write short notes on any two of the following topics.
 - i. Habitat fragmentation.
 - ii. Ex-situ conservation.
 - iii. Value of Biodiversity