THE OPEN UNIVERSITY OF SRI LANKA

POST GRADUATE DIPLOMA / MASTER OF SCIENCE   IN

ENVIRONEMNTAL SCIENCE 2008-2009

ENVIRONEMNATL STUDIES UNIT

NEP 2202 - BIODIVERSITY CONSERVATION AND

MANAGEMNT

Date: 20th August 2009　　　　　　　**Time 09.30 a.m to 12.30 p.m.**

Answer any **four (4)** questions

1.　　a) Explain what is meant by the term "biome".

　　　b) Give an account of the important natural biomes, classified based on climate and vegetation.

2.　　a) Define consumptive and non-consumptive uses of biodiversity, using examples from Sri Lanka.

　　　b) Discuss with examples the main threats to global biodiversity

　　　c) What types of biomes would be affected mostly by the demand for timber?

　　　d) Give reasons for concern on the threat from non-native plant species.

3. a) Analyse the advantages and disadvantages of *in-situ* and *ex-situ* conservation for large mammals such as the leopard.

   b) Compare the suitability of *ex-situ* conservation measures in Sri Lanka for an endemic rainforest bird species such as the red-faced malkoha and an endemic ornamental fish species that is being exported.

   c) How relevant are species and ecosystem based approaches for conservation of a critically threatened monkey species in Sri Lanka? Explain what approach/s should be used and why.

4. a) What is meant by a "threatened species" as defined in the IUCN Red List?

   b) What are the three categories of threatened species in the current IUCN Red List? Give examples for each category.

   c) What are the five main factors that are taken into account when listing threatened species in the IUCN Red List?

5. Define the term Eco tourism and explain the requirements that need to be fulfilled for an activity to be qualify as an eco tourism venture.

6. Discussed the main steps involved in the preparation of a management plan for a protected area for the conservation of Biodiversity