

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE

Level IV Semester I Examination

July 2015

LIM 4112 Inland Aquatic Ecosystem Management and Conservation

Time: 01 ½ hours

Answer all questions

Part I (15 marks)

Select the correct answer

01. Extinction is more likely in a population of a species with which of the following characteristics?
- i. small populations of dispersed individuals
 - ii. large populations of relatively high density
 - iii. wide geographic distribution
 - iv. generalist
 - v. all of the above indicate a species that is likely to become extinct
02. Which of the following causes the greatest number of extinctions?
- i. competition with introduced species
 - ii. commercial hunting
 - iii. pollution
 - iv. habitat alteration
 - v. pest control
03. What was the name of the first international agreement on climate change?
- i. Red List of 1962
 - ii. Montreal Protocol of 1989
 - iii. International Union for the Conservation of Nature (IUCN) of 1948
 - iv. Kyoto Protocol of 1997
 - v. Convention on Biological Diversity of 1992
04. Ecological boundaries can be classified based on
- i. Maintenance, species structure, temporal dynamics and origin
 - ii. Origin, special structure, function and temporal variations
 - iii. Origin, special structure, function and temporal dynamics
 - iv. Origin, special composition, function and temporal dynamics
 - v. Maintenance, species structure, temporal dynamics and spatial variation
05. Choose the correct statement
- i. Ecological Integrity Assessment is a uni-metric index
 - ii. Ecosystem management intend to maintain resources
 - iii. Common feature of natural resource management is its associated uncertainty
 - iv. Ecosystem management meant to maintain biological diversity
 - v. Environmentally critical areas includes productive lands

Part II (35 marks)

Write your answer only within the provided space

1. Define the terms "Ecological Integrity" and "Ecological Threshold".

i. Ecological Integrity

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ii. Ecological Threshold

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2. Name three categories of restrictions or prohibitions commonly used in environmental regulation.

i.

ii.

iii.

3. What are the main three functions of "Environmental Impact Assessment" (EIA)?

i.

ii.

iii.

4. Name three general principles adopted in the enforcement of environmental law.

i.

ii.

iii.

5. What are the three main levels of Biological diversity?

i.

ii.

iii.

6. Define 'Migratory Species'.

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7. What is the main purpose of the Ramsar Convention of 1971?

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8. Name six Ramsar sites in Sri Lanka.

- i.
- ii.
- iii.
- iv.
- v.
- vi.

9. Write four categories that can be used in defining 'ecological boundaries'.

- i.
- ii.
- iii.
- iv.

10. Write four environmentally critical areas that need Environmental Impact Assessments (EIA) regardless of type of the project.

- i.
- ii.
- iii.
- iv.

