



RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

B.Sc. (General) Degree in Applied Sciences
Third Year – Semester I Examination – September/October 2019

BDC 3301 - BIODIVERSITY AND CONSERVATION

Three (03)
Time: ~~Two (02)~~ hours

Answer ALL questions.

1. a) Briefly describe the different levels of biodiversity with suitable examples. (30 marks)
b) Explain why ecosystems are important for conservation of biodiversity. (70 marks)
2. Write an account on the processes of immigration and extinction on naturally occurring islands or habitat islands formed as a result of fragmentation of former continuous forests. (100 marks)
3. a) Outline the different types of focal species found in nature and give example for each type. (15 marks)
b) Citing suitable examples explain the role and importance of the above species in ecosystem maintenance. (85 marks)
4. a) Define the term ex-situ conservation and state the different types of ex-situ conservation centers in Sri Lanka. (30 marks)
b) Using suitable examples, discuss the advantages and disadvantages of ex-situ conservation options for an island like Sri Lanka. (70 marks)
5. a) What is meant by the term “interpretation”? (05 marks)
b) What is the purpose of interpretation in environmental education? (30 marks)
c) Explain the contribution of environmental education to biodiversity conservation. (65 marks)
6. a) Define the term “Translocation” (05 marks)
b) Briefly describe the reasons for translocation of animals. (30 marks)
b) Citing a successful example of translocation animals, explain the steps that you consider important in translocation programs. (65 marks)

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