



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Applied Sciences
Third Year – Semester I Examination – June/July 2018**

BIO 3201 – BIODIVERSITY AND CONSERVATION

Time: Two (02) hours

Answer any FOUR (04) of the following questions.

1. "Species maintain their genetic distinctiveness due to barriers for reproduction". Clarify this statement using suitable examples. **(100 marks)**
2. Discuss the causes and consequences of species extinction using suitable examples. **(100 marks)**
3. "Signing and ratifying the international environmental conventions provide benefits to a country for conservation of biodiversity". Comment on this statement using suitable example from Sri Lanka. **(100 marks)**
4. 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 mentioned species in part (a) for ecosystem maintenance. **(85 marks)**
5. Write short notes on the following;
 - a) IUCN categories of threatened species
 - b) different values of biodiversity
 - c) biodiversity hotspots in the World
 - d) positive and negative impacts of edge habitats on biodiversity.

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