



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

**B.Sc. (Special) Degree in Applied Sciences
Third Year - Semester 1 Examination – November/December 2016**

BIO 3207 – CONSERVATION OF BIOLOGICAL RESOURCES

Time: Two (02) hours

Answer four (04) Questions

1. a) Define the term “genetic diversity”
b) State different methods involved in measuring genetic variation.
c) “Citing suitable examples, discuss the processes that shrink the genetic diversity in a population.
2. a) Define “Keystone species concept”.
b) Giving examples outline the different types of keystone species found in nature .
c) Using suitable examples, explain the role and importance of Keystone species for maintaining the ecosystem.
3. “Biodiversity of a country or region provides its people with numerous benefits.” Discuss this statement emphasizing different benefits and assigning values to biodiversity.

4. "Knuckles conservation forest is identified as one of the high biodiversity forest ecosystems in Sri Lanka".
 - a) State five main montane forests in Sri Lanka.
 - b) Support the above statement indicating the reasons for conserving this forest and list the major economical importance of these forests.
 - c) Explain the major problems that have negative impacts on social life of the surrounding villages of Northern Flank of the Knuckles forest and make recommendations to overcome these problems.
5. Write short notes on the following;
 - a) mechanisms of species loss
 - b) IUCN categories of threats.
 - c) biodiversity hotspots in the world
 - d) positive and negative impacts of formation of edge habitats on biodiversity

END