



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

**B.Sc. (General) Degree in Applied Sciences
Third Year Semester II Examination – April/May 2016**

ZOO 3207 – WILDLIFE MANAGEMENT

Time: Two (2) hours

Answer four (04) questions only.

1. Briefly describe two measures of genetic diversity of populations and how they could be used in the conservation and management of species?
2. Discuss the concepts of structural and functional biodiversity and their role in conservation planning.
3. Describe four factors or processes that might contribute to a population's extinction.
4. Write short notes on any **four (04)** of the following;
 - a) Spatial scales of biodiversity
 - b) Population age structure and population growth
 - c) Species concepts and Evolutionarily Significant Units (ESU)
 - d) Source-sink dynamics
 - e) Species diversity and richness
5. Briefly discuss the causes and consequences of forest fragmentation.