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

**B.Sc. (General) Degree in Applied Sciences
Third Year - Semester II Examination – February/March 2019**

ZOO 3207 – WILDLIFE MANAGEMENT AND CONSERVATION

Time: Two (02) hours

Answer FOUR (04) questions.

1. Using examples, discuss the factors that influence patterns of genetic diversity in natural populations of a species and why it is important to maintain genetic diversity from a conservation perspective?

(25 marks)
2. Write short notes on the following;
 - a) Population age pyramids
 - b) Demographic stochasticity
 - c) Metapopulations and source-sink dynamics
 - d) Species concepts and Evolutionarily Significant Units (ESU)
 - e) Carrying capacity

(5x5 marks)
3. Comment on the spatial scales of biodiversity and their implications for conservation.

(25 marks)
4. Using suitable examples, discuss how invasive species are introduced and their impact on native biodiversity.

(25 marks)
5. Discuss briefly why some species are particularly sensitive to human induced threats.

(25 marks)

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