

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF NATURAL  
RESOURCES MANAGEMENT, ENVIRONMENTAL SCIENCE & WILDLIFE  
ENTERPRISE MANAGEMENT

ENSC 253: BIODIVERSITY CONSERVATION

STREAMS: ENSC, ECOT & WIEM

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 5 /12/2018

8.30 A.M - 10.30 A.M.

INSTRUCTIONS:

- Answer ALL Questions in Section A and any other TWO Questions in Section B
- Do not write anything on the question paper

SECTION A

1. (a) Explain the following terms;
  - (i) Alpha diversity
  - (ii) Preservation
  - (iii) Habitat
  - (iv) Population
  - (v) Flagship species
  - (vi) Ecological succession[6 Marks]
2. Explain “Habitat loss” as a major threat to world’s biodiversity. [6 Marks]
3. Discuss the merits and demerits of coarse filter approach of biodiversity conservation. [6 Marks]
4. Name two aquatic and two terrestrial species that may be categorized as endangered in the IUCN, 2004 categorization of the conservation status of species. [4 Marks]
5. Explain various types of niche that may be experienced by organisms within tier habitats. [4 Marks]
6. Name and explain any four major species interactions that may be observed in functional ecosystem. [4 Marks]

**SECTION B: [40 MARKS]**

7. Discuss the objectives and achievements of various global conventions related to biodiversity conservation. [20 Marks]
8. Explain the role of biodiversity in the achievement of Sustainable Development Goals (SDG's). [20 Marks]
9. Discuss how various factors contribute to biodiversity loss in the world's ecosystems. [20 Marks]

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