



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES

SECOND SEMESTER EXAMINATION FOR DEGREE IN BACHELOR OF ENVIRONMENTAL STUDIES

ENS 241: BIODIVERSITY CONSERVATION

Date:

Time:

INSTRUCTIONS:

Answer ALL questions in section A and any other TWO in section B

SECTION A (COMPULSORY)

1. a) Explain the following terms as used in Biodiversity
 - i) Species abundance (2 marks)
 - ii) Endemic species (2 marks)
 - iii) Biodiversity hotspot (2 marks)
 - iv) Species richness (2 marks)
 - v) Genetic diversity (2 marks)

- b) Describe Taita Hills forest as a biodiversity hotspot found within the Eastern Arc (5 marks)

- c) Outline the campaign strategies that are employed by environmental conservationists in protection of biodiversity hotspots. (5 marks)

- d) Explain two measures used in the recovery of critically endangered species. (5 marks)

- e) By giving examples, distinguish between Endangered and critically endangered species. (5 marks)

SECTION B: ANSWER ANY OTHER TWO QUESTIONS

2. Citing examples, discuss the causes of species extinction. (20 marks)
3. Discuss five international organizations that are involved in conservation of biodiversity hotspots. (20 marks)
4. Discuss *in-situ* and *ex-situ* biodiversity conservation methods as applied in Kenya (20 marks)
5. Discuss the various policies and legislation measures that have been enacted by the Kenyan government in order to conserve biodiversity. (20 marks)