



# 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 SCIENCE

IN ENVIRONMENTAL RESOURCE CONSERVATION

BACHELOR OF SCIENCE IN ENVIRONMENTAL STUDIES (COMMUNITY  
DEVELOPMENT)

ENS 241: BIODIVERSITY CONSERVATION

Date: 18/4/2016

Time: 2:00 – 4:00 PM

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## INSTRUCTIONS

*This paper consists of FIVE questions*

*Answer question one and other two questions in this paper*

### QUESTION ONE.

- a) Explain the meaning of the following terms
- i. Genetic diversity (2 marks)
  - ii. Species diversity (2 marks)
  - iii. Ecosystem diversity (2 marks)
  - iv. Endangered species (2 marks)
  - v. Ecosystem fragmentation (2 marks)
- b) Explain five characteristics of threatened/endangered species (15 marks)
- c) Using specific examples, explain the role of alien species on species extinction. (5 marks)

## **QUESTION TWO**

Explain how the convention on biological diversity and other related international treaties are contributing to conservation and management of biodiversity in Kenya (20 marks)

## **QUESTION THREE**

Using examples explain FIVE principal threats to biodiversity in Kenya and outline possible remedial measures being taken by the government to address the threats (20 marks)

## **QUESTION FOUR**

Explain what the convention on biological diversity says on the following:-

- a) ex-situ conservation (10 marks)
- b) Sustainable use of the components of biological diversity (10 marks)

## **QUESTION FIVE**

Discuss five main benefits of biological diversity in East Africa (20 marks)