



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

ERC 213: INTRODUCTION TO WILDLIFE RESOURCES

Date: 20/04/2016

Time: 8.30-10.30 AM

INSTRUCTIONS

This paper consists of FIVE questions

Answer question one and other two questions in this paper

SECTION A (Compulsory)

Question 1

Differentiate between the following terms:

- a) Exotic and indigenous species (6 marks)
- b) Resource conservation and resource preservation (6 marks)
- c) Dryland improvement and dryland rehabilitation (6 marks)
- d) In-situ and ex-situ conservation (6 marks)
- e) Wildlife sentimentalists and wildlife protectionists (6 marks)

SECTION B (ANSWER ANY TWO)

QUESTION 2

Environmental conservation and management has a direct link with natural resources conservation, which in turn has a direct link with the quality of life. Using suitable examples, discuss the factors that determine the quality of life from an ecological point of view

(20 marks)

QUESTION 3

- a) State the ecological and economic importance of forest and dryland ecosystems to mankind. (10 marks)
- b) Assume that after your graduation, you have been hired by an International Non-Governmental Organization as a dryland natural resource specialist, to work in Narok County. In your terms of reference for the job, you are required to set up a dryland improvement programme in Suswa. Discuss the basic considerations of selecting a suitable improvement method in ASAL areas. (10 marks)

Question 4

- a) Explain any FIVE functions of Kenya Wildlife Service. (5 marks)
- b) List FIVE wildlife crimes experienced in Kenya (5 marks)
- c) Discuss any FIVE factors that lead to the degradation of wildlife resources in Kenya (10 marks)

Question 5

- a) Discuss FIVE factors affecting plants distribution in the rangelands (10 marks)
- b) Explain FIVE values of wildlife resources (10 marks)