



# MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)  
University Examinations 2015/2016 Academic Year

**SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT**

**DEPARTMENT OF ENVIRONMENTAL STUDIES**

**FIRST SEMESTER EXAMINATION FOR BACHELOR OF ENVIRONMENTAL  
STUDIES (ENVIRONMENTAL RESOURCE CONSERVATION)**

**ECD 206: PRINCIPLES OF NATURAL RESOURCES MANAGEMENT**

**Date**

**TIME**

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## **INSTRUCTIONS**

- This paper comprises of two sections A and B.
- Section A. Question ONE (1) is compulsory
- Section B: Answer any TWO (2) questions in this section.

## **SECTION A. (COMPULSORY) (30 MARKS)**

1. (a) Explain the following terms as used in natural resources management.
  - (i) Inexhaustible resources: (2 marks)
  - (ii) Renewable resources: (2 marks)
  - (iii) Tragedy of the commons. (2 marks)
  - (iv) Natural capital (2 marks)
  - (v) Sustainable livelihoods (2 marks)
- (b) Explain why adaptation to climate change and adoption of new technologies is important in the development of dry lands in Kenya. (6 marks)

- (c) Explain the role played by natural resources in sustainable community development in Kenya. (8 marks)
- (d) Explain the three essential dimensions of sustainable development. (6 marks)

**SECTION B. ANSWER ANY TWO QUESTIONS. EACH QUESTION CARRIES (20 MARKS)**

- 2. (a) Explain five natural resource conflict management and resolution strategies. (10 marks)
- (b) Discuss tools that can be used in the management of natural resources in Kenya. (10 marks)
- 3. Explain the four categories of services that can be derived from natural capital. (20 marks)
- 4. (a) Using local examples, explain land suitability classifications. (10 marks)
- (b) Discuss the importance of agro-ecological zonation in agriculture and the management of natural resources. (10 marks)
- 5. By use of clear examples, explain the importance of forests ecosystems in Kenya. (20 marks)