



# MACHAKOS UNIVERSITY

University Examinations for 2017/2018

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES AND COMMUNITY  
DEVELOPMENT

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF  
ENVIRONMENTAL SCIENCE (RESOURCE CONSERVATION)  
ERC 409: NON-FORMAL ENVIRONMENTAL EDUCATION

DATE: 6/12/2017

TIME: 11.00-1.00 PM

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**INSTRUCTIONS:**

Answer Question ONE and ANY other TWO Questions

**QUESTION ONE (30 MARKS)**

- a) Explain the following concepts:
  - i. Social unit (2 marks)
  - ii. Non-formal education (2 marks)
  - iii. Extension service (2 marks)
  - iv. Non-Government Organization (NGO) (2 marks)
  - v. Ecological intelligence (2 marks)
- b) Differentiate between the two types of media (4 marks)
- c) Citing examples, explain the role of non-formal education institutions in environmental conservation in Kenya (4 marks)
- d) Explain the channels for non-formal education in Kenya (4 marks)
- e) Discuss four types of non-formal education (8 marks)

**QUESTION TWO (20 MARKS)**

Supposing you have been employed as a forestry extension worker in your community, discuss your role in this extension service. (20 marks)

**QUESTION THREE (20 MARKS)**

- a) Citing examples explain two main relationships of Social groups in Kenya (4 marks)
- b) Assuming you are anticipating a flood disaster to occur in your community, explain the steps you would undertake to develop an Non-Governmental Organization (NGO) to manage the disaster (6 marks)
- c) Explain the perspectives of non-formal education (10 marks)

**QUESTION FOUR (20 MARKS)**

- a) Discuss four methods of extension service in Kenya (8 marks)
- b) Explain six types of Social groups in your community (12 marks)

**QUESTION FIVE (20 MARKS)**

- a) Citing examples, explain five roles of mass and electronic media in promoting non-formal environmental education in Kenya (10 marks)
- b) Explain the role of informed citizens in environmental awareness and conservation in Kenya (10 marks)