



# MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR IN ENVIRONMENTAL STUDIES AND COMMUNITY DEVELOPMENT

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ECD 206: PRINCIPLES OF NATURAL RESOURCES MANAGEMENT

DATE: 24/7/2019

TIME:8.30-10.30 AM

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## INSTRUCTIONS:

Answer question ONE and any other TWO questions

### QUESTION ONE (30 MARKS)

- a) Explain the following terms
- i. Ecosystem (2 marks)
  - ii. Adaptive management (2 marks)
  - iii. Sustainable development (2 marks)
  - iv. Precautionary principle (2 marks)
  - v. Polluter pays principle (2 marks)
- b) Using relevant examples, explain the key features of sustainable natural resource management (10 marks)
- c) Discuss the key challenges to natural resources management in your county (10 marks)

### QUESTION TWO (20 MARKS)

- a) Citing relevant examples, explain different stakeholder involved in Natural Resources Management and their roles (10 marks)

- b) Explain different types of resources in Kenya, critically evaluate their significance in sustainable development in the country (10 marks)

**QUESTION THREE (20 MARKS)**

- a) Citing relevant examples, explain the linkages between natural resources and human well-being (10 marks)
- b) Describe the different natural resource management paradigms and highlight their strengths and weaknesses (10 marks)

**QUESTION FOUR (20 MARKS)**

- a) As the head of natural resource management in your county, evaluate the importance of community-based natural resource management approach (10 marks)
- b) Using appropriate examples, discuss the ecological factors you would consider in the sustainable management of marine resources in Kenya (10 marks)

**QUESTION FIVE (20 MARKS)**

Using suitable examples, discuss the significance of natural resource management in climate change mitigation and adaptation.