



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

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.