



# MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FOURTH YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR  
BACHELOR OF ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

ECD 415: POVERTY, ECOSYSTEMS AND HUMAN WELLBEING

DATE: 19/01/2021

TIME: 2.00-4.00 PM

---

## **INSTRUCTIONS:**

Answer question ONE and any other TWO questions

### **QUESTION ONE (30 MARKS)**

- a) Explain the following terms:
- i. Millennium Ecosystem Assessment (2 marks)
  - ii. Eco-development (2 marks)
  - iii. Integrated Environmental Assessment (2 marks)
  - iv. Horizontal integration (2 marks)
  - v. Provisioning services (2 marks)
- b) Compare and contrast Frontier Economics and Deep ecology (10 marks)
- c) Explain the five components of human wellbeing. (10 marks)

### **QUESTION TWO (20 MARKS)**

Discuss direct and indirect drivers of change and their impact on the Mau ecosystem

### **QUESTION THREE (20 MARKS)**

Poverty is directly related to how environmental resources are used or shared. Discuss this statement in relation to land resources.

**QUESTION FOUR (20 MARKS)**

Citing relevant examples, discuss the categories of ecosystem boundaries.

**QUESTION FIVE (20 MARKS)**

Discuss the factors to be considered in prioritizing an assessment of a wetland ecosystem.