



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

ECD 415: POVERTY, ECOSYSTEMS AND HUMAN WELLBEING

DATE: 26/10/2020

TIME: 11.00-1.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Explain the following terms:
 - i. Ecological function (2 marks)
 - ii. Ecosystem services (2 marks)
 - iii. Resilience (2 marks)
 - iv. Material wellbeing (2 marks)
 - v. Poverty alleviation (2 marks)
- b) Explain the ecological functions and their role in ecosystem service provision (10 marks)
- c) Outline five institutions that are mandated with the management of ecosystems in Kenya. (10 marks)

QUESTION TWO (20 MARKS)

Explain the linkages between poverty, ecosystems and human wellbeing.

QUESTION THREE (20 MARKS)

Discuss resources use paradigms and their impact on forest ecosystems.

QUESTION FOUR (20 MARKS)

Outline the steps of carrying out an ecosystem assessment for a marine ecosystem.

QUESTION FIVE (20 MARKS)

Citing relevant examples, discuss how international level decisions undermine/affect the use of ecosystems at local and national level.