



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR

FOURTH YEAR 1ST SEMESTER
MAIN EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE
EDUCATION AND EXTENSION**

COURSE CODE: AEC 411

COURSE TITLE: NATURAL RESOURCE MANAGEMENT

DATE: 19TH APRIL 2023

TIME: 9 – 11 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

QUESTION ONE**30 MARKS**

- i) Explain the meaning of the term ecosystem services and define the following services
(10 Marks)
- a) Provisioning services
 - b) Regulating services
 - c) Supporting services
 - d) Cultural services
- ii) The outcome of open access has been acknowledged as the “tragedy of the commons”
Discuss.
(10 arks)
- iii) Define the following terms
(10 Marks)
- a. Conservation
 - b. sustainable development
 - c. Bequest value
 - d. Environmental audit

QUESTION TWO**20 MARKS**

1. Briefly explain the ecological approach to Natural resource Management
(5 Marks)
2. Explain five sustainable development goals that relate to Natural resource management
(15 Marks)

QUESTION THREE**20 MARKS**

1. Define the term Natural Resources
(2 marks)
2. Natural Resources can be classified according to origin, state of development and exhaustibility. Discuss
(18 Marks)

QUESTION FOUR**20 MARKS**

1. Discuss the important steps in carrying out an EIA?
(10 Marks)
2. Explain the benefits of doing an Environmental Impact Assessment
(10 Marks)

QUESTION FIVE**20 MARKS**

How are the following methods applied in the valuation of Natural Resources

- a) Human Capital Approach
- b) Preventive expenditure approach
- c) Production function approach
- d) Benefit transfer method