



MACHAKOS UNIVERSITY

University Examinations For 2021/2022 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SECOND SEMESTER EXAMINATION FOR
BACHELOR OF ENVIRONMENTAL SCIENCES

BACHELOR OF (ENVIRONMENTAL RESOURCE CONSERVATION)

ERC 316 MULTIPLE USE FOREST MANAGEMENT

DATE:

TIME:

INSTRUCTIONS: Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- What is Multiple Use Forest management? (2 marks)
- Explain the multiple values of forests in Kenya (8 marks)
- Briefly discuss forest carbon sequestration as a factor of climate change. (10 marks)
- Enumerate the ecosystem services provided by forests which are critical to human survival. (10 marks)

QUESTION TWO (20 MARKS)

Discuss the issues of forest fire management with emphasis to its associated risks.

QUESTION THREE (20 MARKS)

Discuss the important forest vegetation management practices and their uses in multiple use forest management.

QUESTION FOUR (20 MARKS)

Diagnose the ecological problems in a multiple use forest and prescribe measures to mitigate those issues.

QUESTION FIVE (20 MARKS)

Using examples discuss the types of biodiversity conservation measures that are applied by the relevant agencies in their management efforts.