



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

**THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)**

ERC 321: WATER AND MARINE RESOURCES MANAGEMENT

DATE: 24/3/2021

TIME: 2.00-4.00 PM

INSTRUCTIONS;

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Explain the following
 - i. Eutrophication (2 marks)
 - ii. Lotic ecosystems (2 marks)
 - iii. Coral reefs (2 marks)
- b) Explain four routes by which pesticides contaminate the aquatic environments (12 marks)
- c) Explain four physicochemical characteristics of water that influence productivity and survival of aquatic life (12 marks)

QUESTION TWO (20 MARKS)

Discuss the two major categories of aquatic ecosystems in Kenya

QUESTION THREE (20 MARKS)

Citing examples, discuss the major challenges faced in the management of fisheries in Kenya and suggest possible ways in which fisheries resources can be managed sustainably

QUESTION FOUR (20 MARKS)

Discuss the effects of human activities on aquatic environments in Kenya

QUESTION FIVE (20 MARKS)

Using examples, explain the benefits of marine resources to local communities living along the Kenyan Coast.