



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR IN ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ERC 212: INTRODUCTION TO WATER AND MARINE RESOURCES

DATE: 24/9/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Explain the meaning of the following terms
 - i. Plankton (2 marks)
 - ii. Tidal waves (2 marks)
 - iii. Coral reefs (2 marks)
 - iv. Beach Management Unit (2 marks)
 - v. Estuary (2 marks)
- b) Explain the threats faced by Sea turtles along the Kenya Coastal marine ecosystems (5 marks)
- c) Explain five major roles of sea grass beds in the East African Coast (15 marks)

QUESTION TWO (20 MARKS)

Discuss how marine organisms are adapted to the epipelagic and mesopelagic environments

QUESTION THREE (20 MARKS)

Discuss the importance of mangrove forests in Kenya

QUESTION FOUR (20 MARKS)

Discuss five major factors threatening the coral reef ecosystem along the Kenyan Coast and suggest ways by which it can be managed on a sustainable basis

QUESTION FIVE (20 MARKS)

Discuss five major challenges encountered in the management of marine fisheries in Kenya