

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF SCIENCE IN MARINE RESOURCE MANAGEMENT

BSMR 17S/YEAR 1/ SEMESTER 1 AES 4104: COASTAL GEOMORPHOLOGY SPECIAL/ SUPPLIMENTARY EXAMINATIONS SERIES: SEPTEMBER 2018

TIME: 2 HOURS

Instructions to Candidates

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions.

This paper consists of two printed pages.

Mobile phones are NOT allowed in the examination room

QUESTION ONE. (30 MARKS)

a) Define the following terms (5marks)

- i. Shore
- ii. Dune
- iii. Nearshore zone
- iv. Barrier islands
- v. headland
- b) Explain how waves and tides shape and modifies a coastline. (4marks)
- c) State FOUR factors influencing species' presence and distribution in littoral ecosystem.

(4marks)

- d) State FOUR human activities affecting marine ecosystems. (4marks)
- e) Briefly describe feature's that arise from sea level change. (4marks)
- f.) review FIVE main processes responsible for coastal erosion (5marks)
- g.) highlight factors considered in restoration of a tidal ecosystem (4marks)
- f.) review FIVE main processes responsible for coastal erosion (5marks)
- g.) highlight factors considered in restoration of a tidal ecosystem (4marks)

QUESTION TWO. (20 MARKS)

Classify the major zones of marine habitats in the Mediterranean region. (20marks)

QUESTION THREE. (20 MARKS)

Discuss major coastal uses in Kenya. (20marks)

QUESTION FOUR. (20 MARKS)

Discuss emergent and submergent coasts. (20marks)

QUESTION FIVE. (20 MARKS)

Discuss the abiotic change in coastal marine environments (20marks)