



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER

**SCHOOL OF TOURISM & NATURAL RESOURCES
MANAGEMENT**

**BACHEOR OF SCIENCE (WILDLIFE RESOURCE
MANAGEMENT)**

COURSE CODE: WRM 2210-1

**COURSE TITLE: MARINE ECOLOGY AND
OCEANOGRAPHY**

DATE: 18/4/ 2024

TIME:1430-1630 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in Section A, and any **THREE** questions in Section B

This paper consists of 2 printed pages. Please turn over

Section A: Answer ALL Questions (20 marks)

1. Explain **two** (2) sources of sea-floor sediments (2 mark)
2. Describe **three** (3) marine habitats (6 marks)
3. Briefly explain two (2) conditions for optimal growth of mangroves (4 marks)
4. Highlight **four** features of neritic zone of oceans (4 marks)
5. State **four** reasons why sea weeds should be protected from degradation (4 marks)

Section B: Answer any THREE questions (30 marks)

1.
 - i. Define thermal stratification (1 mark)
 - ii. Describe physical properties of marine water indicating **one** (1) importance of each property (9 marks)
2. a) Highlight adaptations of the marine benthic communities (4 marks)
b) Discuss threats to the marine ecosystems (6 marks)
3.
 - a. Evaluate the role of upwelling in marine ecosystems (4 marks)
 - b. Describe the effects of the following on primary productivity of oceans
 - i. Oxygen (2 marks)
 - ii. Light (2 marks)
 - iii. Nutrients (2 marks)
4. Marine ecosystems play a significant role in maintaining the earth's systems. Using **five** points, explain this statement (10 marks)

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