



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER

**SCHOOL OF NATURAL RESOURCES,
ENVIRONMENTAL STUDIES AND
AGRICULTURE**

**BACHELOR OF ARTS GEOGRAPHY AND
GEOSPATIAL TECHNIQUES**

COURSE CODE: GEO 4156-1

COURSE TITLE: WETLAND MANAGEMENT

DATE: 13TH DECEMBER 2023

TIME: 0830-1030 HOURS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in Section A, and any **THREE** questions in Section B.
use illustrations where appropriate.

This paper consists of 2 printed pages. Please turn over

Section A: Answer ALL questions (20 marks)

1. Explain two (2) types of wetlands (4 marks)
2. Describe two (2) field indicators of wetland hydrology (4 marks)
3. Explain three (3) characteristics of wetlands (6 marks)
4. Describe three (3) principles for restoration of degraded wetlands (6 marks)

Section B: Answer any THREE questions (30 marks)

QUESTION ONE

- a) Explain wetland water budget (2 marks)
- b) Describe four (4) ways water influences wetland ecosystem functioning (8 marks)

QUESTION TWO

- a) Explain four (4) challenges that wetland organisms encounter (8 marks)
- b) To each challenge in question three (a) above, outline one (1) way these organisms adapt to the challenges (2 marks)

QUESTION THREE

- a) Define wetland inventory (2 marks)
- b) Establishment of wetland buffers is a strategy towards conservation of wetlands. Using four (4) points, explain this statement. (8 marks)

QUESTION FOUR

When humans manipulate wetlands, wetland functioning may be interfered with as a result. Discuss five (5) ways such actions can interfere with the functions of wetlands (10 marks)

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