



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER

SCHOOL OF NATURAL RESOURCES,

ENVIRONMENTAL STUDIES AND

AGRICULTURE

**BACHELOR OF SCIENCE (ENVIRONMENTAL
SCIENCE)**

COURSE CODE: BES 1209-1

**COURSE TITLE: INTRODUCTION TO WATER
RESOURCE MANAGEMENT**

DATE: 15/5/2024

TIME: 0830-1030 HRS

INSTRUCTIONS TO CANDIDATE

Answer Question one and any other three Questions

QUESTION ONE

(20 Marks)

- i) Describe three main categories of water resources (6 marks)
- ii) Explain the following terminologies:
 - a) Water resource Development (1 marks)
 - b) Water resource Planning (1 marks)
 - c) Water resource Management (1 Marks)
- iii) Explain the main purpose of the Water Act 2016 (3 marks)
- iv) Define the following with respect to groundwater:
 - a) Aquitard (2 marks)
 - b) Aquiclude (2 marks)
 - c) Aquifer (2 marks)
 - d) Phreatic zone (2 marks)

QUESTION TWO

(10 Marks)

Discuss the importance of the global water cycle and its importance

QUESTION THREE

(10 Marks)

Discuss any five reasons for Integrated Water Resource Management process

QUESTION FOUR

(10 Marks)

Discuss the roles of any two agencies in the water sector. Discuss

QUESTION FIVE

(10 Marks)

“Water resource management faces various threats.” Discuss

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