



**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**MAIN EXAMS**

**2023/2024 ACADEMIC YEAR**

**SECOND YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE BACHELOR OF SCIENCE IN DISASTER MITIGATION  
AND SUSTAINABLE DEVELOPMENT**

**COURSE CODE:** DSM 200

**COURSE TITLE:** Theory of resource use

**DATE:** 7/12/2023

**TIME:** 12-2P.M

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**INSTRUCTIONS TO CANDIDATES**

Answer Question 1(ONE) and any other TWO Questions

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

**Question ONE (30 Marks)**

a). Define the below terms as used under theories of resource use

- i) Resource (2 marks)
- ii) Resource degradation (2 marks)
- iii) Resource depletion (2 marks)
- iv) Sustainability (2 marks)
- v) Mitigation (2 marks)

b). Define and briefly explain any 4 ways resources can be degraded, and any 4 ways you can enhance for its sustainable management (20 Marks)

**Question TWO (20 marks)**

With relevant examples, explain the principle of resources on the basis of:

- i) Origin (5 marks)
- ii) Stage of development (5 marks)
- iii) Renewability (5 marks)
- iv) Distribution (5 marks)

**Question THREE (20 marks)**

Describe the theory of tragedy of commons as advanced by Garret Hardin in the context of dry lands resource management (20 Marks)

**Question FOUR (20 marks)**

Using relevant diagrams illustrate the concept of community sustainability in resource use (20 Marks)