



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
UNIVERSITY MAIN EXAMINATION
2023/2024 ACADEMIC YEAR
MAIN CAMPUS**

**SECOND YEAR FIRST SEMESTER EXAMINATIONS
FOR THE DEGREE IN DISASTER MITIGATION AND
SUSTAINABLE DEVELOPMENT**

COURSE CODE: DSM 203

**COURSE TITLE: NATURAL RESOURCE
MANAGEMENT**

DATE: 20/12/2023

TIME: 8-10 A.M

INSTRUCTIONS TO CANDIDATES

Question ONE (1) is compulsory
Answer ANY OTHER TWO (2) questions

TIME: 2 hours

MMUST observes ZERO tolerance to examination cheating

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

QUESTION ONE (COMPULSORY) (30 marks)

- a) Using relevant examples, differentiate between renewable and non- renewable resources (4 marks)
- b) Explain the characteristics of renewable resources (6 marks)
- c) Examine the importance of Biodiversity in Sustainable Development (10 Marks)
- d) Define natural resource management and explain its importance in sustainable development (10 marks)

QUESTION TWO (20 marks)

- a) Describe the concept of carrying capacity in the context of natural resource management. (10 marks)
- b) As a city planner, how would you integrate natural resource management into urban planning to adapt to the impacts of climate change? (10 marks)

QUESTION THREE (20 marks)

- a) Discuss the impact of climate change on natural resource management and the adaptive management strategies to be employed to address these challenges (10 marks)
- b) Explain the sustainable land use measures used to protect vital ecosystems while meeting human development needs (10 marks)

QUESTION FOUR (20 marks)

- a) Interpret the concept of public participation in resource management decision-making processes (10 marks)
- b) Discuss the threats to biodiversity focusing on impacts on ecosystems and species diversity (10 marks)