



(University of Choice)

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

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

MAIN EXAMINATIONS

**FOR
MSC DEVELOPMENT STUDIES**

COURSE CODE: MDS 809

**COURSE TITLE: ENVIRONMENTAL SUSTAINABILITY AND
NATURAL RESOURCE MANAGEMENT**

DATE: TUESDAY 13/12/2022 TIME: 9:00-12:00

INSTRUCTIONS TO CANDIDATES

ATTEMPT QUESTION ONE AND ANY OTHER THREE

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

QUESTION ONE

- a) Describe the historical evolution and emerging transitions of sustainable development (10 marks)
- b) Justify the essence of resource and environmental management in a transitioning economy. (10 marks)
- c) Mention using relevant examples the need for inclusiveness among the various excluded groups in developing an equitable food security policy. (10 marks)
- d) Critically assess the Malthusian population growth theory as a foundation of sustainable development in the context of a transitioning economy. (10 marks)

QUESTION TWO

Developing nations are exposed to the brunt of global climate change hazards, constraining national development. Describe the socio-economic impacts of climate change and discuss the various international and domestic mechanisms that can be adopted to mitigate them. (20 marks)

QUESTION THREE

Development partnerships are crucial for environmental and resource conservation in Kenya. Identify the crucial international and domestic development partners and stakeholders, explaining their role in achieving national conservation targets. (20 marks)

QUESTION FOUR

The County is planning for an extensive wind farm to enhance renewable power supply. As a County Environmental Officer, prepare a socio-environmental impact matrix to identify the potential adverse impacts and suggest the various actions that can be used to mitigate them. (20 marks)

QUESTION FIVE

As a Planning Officer, describe the emerging constraints that developing countries face in achieving targeted Sustainable Development Goals by 2030. Suggest appropriate mechanisms and financial interventions that can be used to overcome the constraints. (20 marks)

QUESTION SIX

Discuss the following emerging dimensions in natural resource management and conservation:

- a. Transboundary resource conflicts and mediation
- b. Command and control conservation policies
- c. Emerging technologies in resource monitoring and evaluation (20 marks)