



(University of Choice)

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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

FIRST YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN DISASTER MITIGATION AND SUSTAINABLE
DEVELOPMENT (DMSD)**

COURSE CODE: DSM 104

COURSE TITLE: PRINCIPLES OF CONSERVATION

DATE: 17/4/2023

TIME: 3-5 PM

INSTRUCTIONS TO CANDIDATES

This Paper contains **FOUR** Questions. Answer Question **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

- a). Explain the following terms as used under the principles of conservation:
- i). Land cover [1 Marks]
 - ii). Thermal pollution [1 Marks]
 - iii). Ecosystem [2 Marks]
 - iv). In situ conservation [2 Marks]
 - v). Indigenous knowledge [2 Marks]
 - vi). Sustainable development [2 marks]
- b). Explain the main features of the current environmental crisis. [10 Marks].
- c). Examine the main causes of the current environmental crisis. [10 Marks].

QUESTION TWO

- i). Explain the current threats faced by our coastal environments in Kenya. [10 Marks]
- ii). Discuss the importance of indigenous/local knowledge in natural resource conservation?
[10 marks]

QUESTION THREE

- i). Outline the goals of water conservation. [6 Marks]
- ii). Explain the methods for water conservation. [10 Marks]
- iii). Distinguish between “In-situ conservation” and Ex-situ conservation” methods. [4 Marks]

QUESTION FOUR

- i). Explain the term environmental remediation. [3 Marks]
- ii). Account for the two broad types/categories of environmental remediation based on where treatment mechanisms are applied. [4 Marks]
- iii). Explain the 10 specific types of environmental remediation techniques. [10 Marks]
- iv). Explain the skills required in environmental remediation. [3 Marks]