



(University of Choice)

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

MAIN CAMPUS

UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATIONS

**MAIN EXAMINATION**

FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN DISASTER PREPAREDNESS AND ENVIRONMENTAL  
TECHNOLOGY  
&  
BACHELOR OF SCIENCE IN GEOSPATIAL INFORMATION SCIENCE

**COURSE CODE: DPE 100**

**COURSE TITLE: INTRODUCTION TO ENVIRONMENTAL SCIENCE**

**DATE: 26/4/2023**

**TIME: 12-2 PM**

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**INSTRUCTIONS TO CANDIDATES**

This paper contains **four (4)** questions

Question **one (1)** is compulsory {total = 30 Marks}

Attempt **any other two (2)** {total = 40 Marks} from the remaining questions

Be brief and to the point

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

## **SECTION I: COMPULSORY {30 MARKS}**

### **Question ONE**

- a) Explicitly define the terms below
- i) Environment (2 Marks)
  - ii) Environmental science (2 Marks)
  - iii) Ecosystem (2 Marks)
  - iv) Biodiversity (2 Marks)
- b) Using examples, describe any classifications of components of the environment (12 Marks)
- c) Examine the significance of environment science (10 Marks)

## **SECTION II: ATTEMPT ANY OTHER TWO (2) QUESTIONS {40 MARKS}**

### **Question TWO**

- a) Environmental studies is multidisciplinary in nature, and therefore considered to be a subject with great scope. Discuss (14 Marks)
- b) Discuss the different levels you can consider to be the degree of variation of life forms in a given environment (6 Marks)

### **Question THREE**

- a) Identify any two (2) natural resources and exhaustively explaining the importance of each (10 Marks)
- b) Discuss some of the associated threats to the natural resources in part (a) in your County (10 Marks)

### **Question FOUR**

- a) Explain any key functions of an ecosystem (5 Marks)
- b) An ecosystem has biotic and abiotic components, present any further classification of biotic component of the environment (15 Marks)

### **Question FIVE**

- a) Evaluate the several ways that biodiversity and its various forms can be valuable to humans in the environment (10 Marks)
- b) Discuss some of the factors that may lead to the dwindling habitats of wildlife in Kenya thereby causing conflict between the wildlife and human beings. (10 Marks)

