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(University of Choice)

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

(Main Campus)

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER MAIN EXAMINATIONS

FOR THE DEGREE OF

BACHELOR OF SCIENCE IN DISASTER PREPAREDNESS AND ENVIRONMENTAL  
TECHNOLOGY

BACHELOR OF SCIENCE IN DISASTER MITIGATION AND SUSTAINABLE  
DEVELOPMENT

BACHELOR OF SCIENCE IN DISASTER MANAGEMENT AND CONFLICT  
RESOLUTION

BACHELOR OF SCIENCE IN DISASTER MANAGEMENT AND HUMANITARIAN  
ASSISTANCE

COURSE CODE: DPE 111

COURSE TITLE: INTRODUCTION TO DISASTERS

DATE: 14/12/2023

TIME: 12-2PM

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### Instructions to Candidates

- This paper contains FOUR (4) questions
- Answer ALL questions in Section A and ANY TWO (2) in Section B

MMUST observes ZERO tolerance to examination cheating

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

**SECTION A: Answer ALL questions [30 Marks]**

**Question 1**

- a) With examples differentiate between a natural hazard and a man-made hazard (6 marks)
- b) Using a well labeled diagram, discuss the disaster management cycle. (16 marks)
- c) Shock is one of the common electrical hazards. It occurs when the electric current passes through the body. Discuss four ways by which Electrical Hazards can be prevented (8 marks)

**SECTION B: Attempt any TWO questions**

**Question 2**

- a) An earthquake with a magnitude 7.5 on the Richter scale has occurred in Morocco. What could be the typical adverse effects of the earthquake? (12 marks)
- b) Discuss four main possible risk reduction measures that a country needs to put in place to reduce the adverse effects of an earthquake? (8 marks)

**Question 3**

Drought is either absence or deficiency of rainfall from its normal pattern in a region for an extended period leading to general suffering in society. Discuss the four (4) main types of droughts. (20 marks)

**Question 4**

Vulnerability may be defined as “The extent to which a community, structure, services or geographic area is likely to be damaged or disrupted by the impact of particular hazard, on account of their nature, construction and proximity to hazardous terrains or a disaster-prone area and is categorized in five categories. Discuss the five categories of vulnerability (20 marks)