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(University of Choice)

**MASINDEMULIROUNIVERSITY OF
SCIENCE AND TECHNOLOGY**

(MMUST)

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

**FIRST YEAR, SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE**

OF

**MASTER OF SCIENCE IN DISASTER MANAGEMENT AND
SUSTAINABLE DEVELOPMENT**

COURSE CODE: DSM 808

COURSE TITLE: FIELD SKILLS

DATE: 26/04/2022

TIME: 2 - 5PM

INSTRUCTIONS TO CANDIDATES

Answer question **ONE (1)** and any other **THREE** questions

TIME: 3 Hours

MMUST observes **ZERO** tolerance to examination cheating

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

Question ONE

- (a) Explain the structure and functions of the main components of an incident command system (ICS). **(10 Marks)**
- (b) Discuss the challenges of implementation of the incident command system (ICS) in Kenya. **(5 Marks)**

Question TWO

Using examples of recent incidents in Kenya, explain the main categories of emergencies.

(15 Marks)

Question THREE

Explain the technical preparedness and mitigation measures for the following hazards:

- (a) Flooding in an area in the Kenyan Coastal zone **(7 Marks)**
- (b) Landslides in an urban area in Central Kenya **(8 Marks)**

Question FOUR

- (a) Using suitable examples distinguish between essential and non-essential items for camping. **(6 Marks)**
- (b) Explain the factors to consider while selecting a site for camping for a wildfire intervention in Mt. Kenya forest. **(5 Marks)**
- (c) Explain the use of hazard maps for environmental disaster interventions. **(4 Marks)**

Question FIVE

Discuss the following functions of the Mass Casualty Incident Management Protocol:

- (a) Fire fighting and rescue **(7 Marks)**
- (b) Transport and Logistics **(8 Marks)**