



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

UNIVERSITY EXAMINATIONS 2022/2023 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:

18/4/2023

TIME: 8-11 AM.

INSTRUCTIONS TO CANDIDATES

Answer question ONE (1) and any other TWO (2) questions

MMUST observes ZERO tolerance to examination cheating

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

Question ONE

- 1(a) Explain the prioritization of sources of drinking water for disaster intervention teams working in a drought-hit area in Northern Kenya. (5 Marks)
- (b) Explain the rationale and method used for the following activities during search and rescue operations on land:
 - (i) Removal or stabilization of debris (5 Marks)
 - (ii) Leveraging and cribbing (5 Marks)
- (c) In many cases, search and rescue techniques on sea and air involve combined use of aircraft and surface vessels. Using suitable examples explain how this is achieved.

(10 Marks)

- (d) (i) What is the purpose of disaster debriefing? (2 Marks)
 - (ii) Explain the main types of debriefing after disasters (3 Marks)

Question TWO

- (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 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) Discuss the core components of an incident command system (ICS). (10 Marks)
- (b) Discuss the challenges of implementation of the incident command system (ICS) in a specific fire incident that happened in an urban setting in Kenya. (5 Marks)