



(University of Choice)

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

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR, FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

**DOCTOR OF PHILOSOPHY IN DISASTER MANAGEMENT AND
SUSTAINABLE DEVELOPMENT**

COURSE CODE: DSM 902

**COURSE TITLE: EDUCATION, TRAINING AND PUBLIC
AWARENESS FOR DISASTER**

DATE: 6/12/2023

TIME: 8-11 A.M

INSTRUCTIONS TO CANDIDATES

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

MMUST observes **ZERO** tolerance to examination cheating

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

Question ONE

(a) Explain the activities supported by public education in the following assessment and planning functions for Disaster Risk Reduction

- (i) Vulnerability and capacity assessment (3 Marks)
- (ii) Planning and Advocacy (5 Marks)
- (iii) Early warning systems (4 Marks)

(b) Explain methods that a resilience officer would use to scale up good impacts of an NGO in Machakos County, Kenya. (18 Marks)

Question TWO

The county government of Marsabit has appointed you to provide a 3-day training to newly recruited staff for Disaster Management for three middle level colleges that are supported by the county. The desired core skill area is participatory disaster management. Explain nature of planning to be undertaken and the likely content you would adopt for the training.

(20 Marks)

Question THREE

Using suitable examples from Kenya, discuss the main stages of behavior change for beneficiary community members that are faced with recurrent flood risks in Western Kenya. (20 Marks)

Question FOUR

- (a) Explain the term “Media” as used in information dissemination. (3 Marks)
- (b) Discuss 2 disaster scenarios in Kenya where media played a negative role in mitigation of disaster risks (12 Marks)
- (c) Media can enhance understanding of disaster risks posed by hydro-meteorological hazards. Explain. (5 Marks)

Question FIVE

- (a) Explain the concept of Artificial Intelligence (AI) (5 Marks)
- (b) Explain the challenges in adoption of AI for Disaster Risk Reduction in Africa. (10 Marks)
- (c) Explain the key considerations for designing messages for disaster early warning for the community (5 Marks)