



(University of Choice)

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

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

**FOURTH YEAR FIRST SEMESTER MAIN EXAMINATIONS
FOR THE DEGREE**

OF

**BACHELOR OF SCIENCE IN DASTER MANAGEMENT AND
SUSTAINABLE DEVELOPEMENT**

COURSE CODE: DSM 401

COURSE TITLE: URBAN DISASTER PLANNING

DATE: 18/12/2023

TIME: 12-2 P.M

INSTRUCTIONS TO CANDIDATES

Answer question ONE and any TWO questions.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

Question one (30 Marks)

- a. Using relevant examples, define the following terms in relation to urban disaster planning;
 - i. Public participation (2 Marks)
 - ii. Hazard exposure (2 Marks)
 - iii. Vulnerability (2 Marks)
 - iv. Urban planning (2 Marks)
 - v. Nature based solutions (2 Marks)
- b. Why do you think it is essential to consider disaster risks in urban planning (10 Marks)
- c. Explain five participatory tools that you would utilize in hazard assessment (10 Marks)

Question two (20 Marks)

- a) Explain the benefits of public participation in urban planning (10 Marks)
- b) What are the challenges in institutionalizing public participation (10 Marks)

Question three (20 Marks)

- a. Examine the physical, social, economic and environmental factors that make cities susceptible to the damaging effect of hazards (10 Marks)
- b. State the main challenges facing flood risk management in Nairobi City County (10 Marks)

Question four (20 Marks)

- a) Identify the functions of Kenyan's cities and municipalities (10 Marks)
- b) Examine the legal and institutional mechanisms that underpin the creation and management of Kenya's urban areas and cities (10 Marks)