



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

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2023/2024 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER EXAMINATION

**FOR THE DEGREE OF BACHELORS OF SCIENCE IN EMERGENCY
MANAGEMENT AND HUMANITARIAN ASSISTANCE**

COURSE CODE: DEM 402

COURSE TITLE: TECHNOLOGY AND EMERGENCY MANAGEMENT

DATE: 11/12/2023

TIME: 12-2PM

INSTRUCTIONS TO CANDIDATES:

Answer QUESTION ONE AND OTHER TWO (2) QUESTIONS

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



QUESTION ONE

(a) Briefly state the criteria used by the National Incident Management systems to evaluate the software used in emergency management. (10 marks)

(b) Discuss the emergency management software used by emergency management personnel to deal with a wide range of disasters including natural and man-made hazards. (20 marks)

QUESTION TWO

Humanitarian inventory control models integrated with an effective distribution methodology are needed to aid in adequately responding to a disaster or a humanitarian crisis. Discuss the importance of having a disaster inventory management models during disasters. (20 marks)

QUESTION THREE

Discuss how the use of technologies for emergency management could effectively reduce deaths and injuries as well as economic losses by ensuring there is a timely and efficient response to disasters (20 marks)

QUESTION FOUR

Technology is an integral part of our daily lives. Discuss some of the innovative emergency management strategies that incorporate technology to deploy resources more effectively during emergencies. (20 marks)

QUESTION FIVE

Discuss how agencies can benefit from asset tracking software for disaster management in managing both resources and staff members during emergencies. (20 marks)