MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS

MAIN EXAMINATION

FOR THE DEGREE OF
BACHELOR OF SCIENCE IN DISASTER PREPAREDNESS AND
ENVIRONMENTAL TECHNOLOGY

COURSE CODE: DPG 209

COURSE TITLE: GEO-INFORMATION IN DISASTER MANAGEMENT

DATE: 20/4/2023   **TIME: 12-2 PM**

INSTRUCTIONS TO CANDIDATES

This paper contains **four (4)** questions
Question **one (1) is compulsory {total = 30 Marks}**
Attempt **any other two (2) {total = 40 Marks}** from the remaining questions
Be brief and to the point

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

SECTION I: COMPULSORY {30 MARKS}

Question ONE

a] Define the following terminologies.
  i. Disaster **(1 Mark)**
  ii. Community **(1 Mark)**
  iii. Vulnerability **(1 Mark)**
  iv. Hazards **(1 Mark)**
  v. Risks **(1 Mark)**

b] Identify and explain the different types of disasters **(10 Marks)**

c] Describe the application of geo-informatics in disaster management **(10 Marks)**

d] Discuss the various phases of a disaster **(5 Marks)**

SECTION II: ATTEMPT ANY OTHER TWO (2) QUESTIONS {40 MARKS}

Question TWO

a] Discuss any two (2) types of vulnerabilities in disaster risk management **(10 Marks)**

b] Explain the concept of disaster zonation? **(10 Marks)**

Question THREE

a] Discuss the effects of a drought disaster in Kenya **(10 Marks)**

b] Explain role of geo information in disaster response and emergency operation.

(10 Marks)

Question FOUR

a] Name and briefly describe any four (4) major disasters common in Kenya in the last 10 years **(10 Marks)**

b] Explain the use of data in disaster preparedness and early warning **(10 Marks)**