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*(University of Choice)*

**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY**

**(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS**

**MAIN EXAM**

**2023/2024 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DIPLOMA IN SECURITY AND INTELLIGENCE STUDIES/ DISASTER  
MANAGEMENT**

**COURSE CODE: SEC/ CU / SM /CC/01/6**

**COURSE TITLE: DISASTER RISK SCIENCE**

**DATE: 15/12/2023**

**TIME: 2-4PM**

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**INSTRUCTIONS TO CANDIDATES:**

**Answer Question ONE and any other THREE**

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



### **QUESTION ONE**

- a. With relevant examples discuss the following? (10mks)
- i. Disaster Risk Reduction
  - ii. Resilience
  - iii. Disaster Myths
  - iv. Early Warning Systems
  - v. Risk Transfer
- b. Discuss the Sendai Framework for Disaster Risk Reduction and its significance in shaping global disaster risk reduction efforts. (15mks)

### **QUESTION TWO**

Community engagement is essential in disaster management providing relevant examples discuss its importance in enhancing disaster preparedness, response, and recovery (15mks)

### **QUESTION THREE**

With reference to COVID-19 as a case study analyze how rumors and misinformation influenced public perception and response during that event and discuss its implications for disaster risk communication. (15mks)

### **QUESTION FOUR**

With an aid of diagram explain the three main components of disaster risk, namely hazard, vulnerability, and exposure and discuss how they interact to influence the overall risk in a given area. (15mks)

### **QUESTION FIVE**

Classifying disasters is effective disaster management with relevant examples discuss its importance and how different classifications guide preparedness and response strategies. (15mks)