



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2013/2014**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF ARTS IN DISASTER  
MANAGEMENT WITH INFORMATION TECHNOLOGY  
(CITY CAMPUS – DAY)**

**PDM 125: DISASTER MANAGEMENT TECHNOLOGIES**

Date: 18<sup>th</sup> July, 2014

Time: 9.00 – 11.00 a.m.

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**INSTRUCTIONS:**

- **Answer Question ONE and any other TWO questions.**

## **PDM 125 DISASTER MANAGEMENT TECHNOLOGIES**

### **ANSWER QUESTION 1 & ANY OTHER 2**

1. a) Through the use of illustrations, describe the elements of risk **(10 Marks)**  
b) Discuss the role of Information Technology in disaster prevention and relief **(20 Marks)**
2. Explain the technologies and processes used in disaster prevention, disaster preparedness and disaster relief in a building structure. **(20 Marks)**
3. a. Describe the methods & technologies used in conducting risk assessment. **(12 marks)**  
b. Describe the following: **(8 marks)**
  - i. Overlay Technique
  - ii. Indicator systems
  - iii. Multi-hazard risk assessment
  - iv. Land-use planning and analysis
4. Discuss the key stages in the disaster cycle and define the specific technologies that are used in each **(20 marks)**
5. Describe the following. **(20 marks)**
  - a. Infrared surveillance
  - b. Wearable technology to aid disaster relief
  - c. Canine search & Rescue Technology
  - d. Renewable energy technologies
6. Make an overview of Recent Trends technologies used in Disaster Management in Kenya. **(20 Marks)**