



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

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

**PDM 113: PUBLIC HEALTH MANAGEMENT IN  
DISASTER SITUATIONS**

*Date: 27<sup>th</sup> November, 2013*

*Time: 8.30 - 10.30am*

**INSTRUCTIONS:**

- Answer QUESTION ONE and any other TWO QUESTIONS
- Read carefully the additional instructions preceding each section.

## **PDM 113: PUBLIC HEALTH MANAGEMENT IN DISASTER SITUATIONS**

1. Define the following.
  - a. Public Health and Emergency Management terms
    - i. Health (2 marks)
    - ii. Public Health (2 marks)
    - iii. Disaster/Emergency (2 marks)
    - iv. Disaster management (2 marks)
  - b. Using examples Outline the eight (8) principles of Emergency management (16 marks)
  - c. By use of a diagram outline the stages of a disaster (6 marks)
2. Discuss:
  - a. The four fundamental theories of disaster explaining how each theory can influence the activities of public health (12 marks)
  - b. The Process Hazard Management (8 marks)
3. Using examples, write brief notes on at least 5 of the 15 Key Areas of Disaster Preparedness and Emergency Management. (20 Marks)
4. Public Health & Medical Services have at least 18 (eighteen) Functional Areas when it comes to disaster management.
  - a. Using examples outline 5 of these key areas. (10 Marks)
  - b. Discuss the HAZID technique of hazard management in public health (10 Marks)
5. Using examples;
  - a) Outline the Elements of Emergency Plan & Response (10 marks)
  - b) Outline Priority Public Health Issues critical in disaster planning and emergency response management. (5 marks)
  - c) Using examples outline the components of environment critical in disaster planning and emergency response management. (5 marks)
6. Discuss the following concept of "Risk Analysis" in public health management in disaster situations, while outlining the following:
  - a) General Principles of Risk Analysis (5 Marks)
  - b) Models of Risk Analysis in disaster managements (5 Marks)
  - c) At least 5 Risk control techniques employed in Risk Management (5 Marks)
  - d) Layers of Protection Analysis (5 Marks)