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*(University of Choice)*

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

**Main CAMPUS**

**MAIN EXAMINATIONS**

**2023/2024 ACADEMIC YEAR**

**MAIN EXAMINATIONS**

**FIRST YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE DEGREE  
OF  
MSc IN CCA, DPEM AND DMSD**

**COURSE CODE: DPE 800**

**COURSE TITLE: ADVANCED PRINCIPLES OF DISASTER  
MANAGEMENT**

**DATE: 8/12/2023**

**TIME: 8-11 AM**

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**INSTRUCTIONS TO CANDIDATES**

- This paper contains **five (5) questions**
- Question **one (1) is compulsory** {total = 20 Marks}
- Attempt **any other three (3)** {total = 60 Marks} from the remaining questions
- Be brief and to the point

**TIME: 3 Hours**

**MMUST observes ZERO tolerance to examination cheating**

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



## SECTION 1: COMPULSORY {20 MARKS}

### Question ONE [20 Marks]

- a) Explain the following terms as used in Disaster Management.
  - i) Disaster risk management [2 Marks]
  - ii) Risk [2 Marks]
  - iii) Natural induced hazard [2 Marks]
- b) Why do disasters occur? [4 Marks]
- c) Using suitable diagrams, explain the phases of a disaster cycle. [5 Marks]
- d) UNDRR observes that member states of IGAD in the horn of Africa are some of the most vulnerable to disasters globally. Evaluate the role of Masinde Muliro University of Science and Technology in Disaster Risk Reduction in the horn of Africa [5 Marks]

## SECTION II: ATTEMPT ANY OTHER THREE (3) QUESTIONS {60 MARKS}

### QUESTION TWO

- a) What is a policy? [4 Marks]
- b) What are the constrains hindering effective and efficient Disaster Risk Reduction operations in Kenya? [8 Marks]
- c) How can we overcome these constrains in (b) to realize an environment of efficient and effective Disaster Risk Reduction in Kenya. [8 Marks]

### QUESTION THREE

- a) What is Community Resiliency? [5 Marks]
- b) What is adaptive capacity? [5 Marks]
- c) Discuss the determinants of adaptive capacity. [10 Marks]

### QUESTION FOUR

- a) What is vulnerability? [4 Marks]
- b) Using a suitable diagram, explain the progression of vulnerability based on the Pressure and Release (PAR) model introduced by Blaikie et al. (1994) to explain how disasters happen. [8 Marks]
- c) Explain the four main types of vulnerability. [8 Marks]

### QUESTION FIVE

- a) Explain the difference between a disaster and an emergency. [6 Marks]
- b) We say that disasters are not natural. Discuss. [8 Marks]
- c) What are the aims of Disaster Management? [6 Marks]