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**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)  
MAIN CAMPUS  
UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE  
OF**

**MASTER OF SCIENCE IN DISASTER MANAGEMENT AND SUSTAINABLE  
DEVELOPMENT (DMSD) & DPEM**

**COURSE CODE: DSM 806**

**COURSE TITLE: ENVIRONMENTAL HEALTH, WATER AND SANITATION**

**DATE: 28/04/2022**

**TIME: 9 - 12 NOON**

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**INSTRUCTIONS TO CANDIDATES**

- This paper contains **FIVE** Questions
- Answer any **FOUR** Questions

**TIME: 3 Hours**

**MMUST observes ZERO tolerance to examination cheating**

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

### Question ONE

- a) Identify the aspects to consider in enhancing the health of entire populations in an area. **(5 marks)**
- b) Outline the basic components of healthy environments. **(5 marks)**
- c) Discuss any **TWO**-priority areas during an emergency. **(10 marks)**

### Question TWO

- a) As a disaster expert in-charge of Kakamega County, discuss the possible impacts of disasters on environmental health facilities and services. **(10 marks)**
- b) With reference to the global Covid-19 Pandemic, discuss the challenges encountered by the Government of Kenya in initiating health programs towards its containment. **(10 marks)**

### Question THREE

- a) Explain the concept of Co-disposal of Municipal Solid Wastes. **(5 marks)**
- b) Describe the disposal of waste using the Land filling method. **(5 marks)**
- c) Distinguish between onsite and offsite sewage treatment systems **(10 marks)**

### Question FOUR

- a) Examine the importance of public health campaigns in promoting health interventions during an emergency. **(10 marks)**
- b) Discuss the responsibilities of individuals, villages and local authorities in environmental health control. **(10 marks)**

### Question FIVE

- a) Explain the following aspects of water supply:
  - i) Transporting and storing domestic water **(5 marks)**
  - ii) Emergency Water-Supply Strategy **(5 marks)**
- b) Examine the role of the following concepts in managing communicable diseases
  - i) Community participation **(5 marks)**
  - ii) Environmental sanitation **(5 marks)**