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*(University of Choice)*

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

(MAIN CAMPUSES)

## UNIVERSITY EXAMINATIONS
## 2023/2024 ACADEMIC YEAR

### FIRST YEAR FIRST END OF SEMESTER EXAMINATIONS

### FOR THE BACHELOR OF SCIENCE
### In
### ENVIRONMENTAL HEALTH

**COURSE CODE:** PPP 116

**COURSE TITLE: CLIMATE CHANGE AND HEALTH**

**DATE: 7/12/2023**                    **TIME: 11.00-1.00 PM**

**INSTRUCTIONS:**
ANSWER ALL QUESTIONS IN SECTION A, AND ANY TWO IN SECTION B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

**SECTION A: ATTEMPT ALL THE QUESTIONS IN THIS SESSION (40 MARKS)**

1. Define the following terms: (4 marks)
   a. Global warming:
   b. La nina:
   c. Disability-Adjusted Life Year:
   d. Climate variability:

2. Note down the categories of hurricanes noting their wind scale? (4 marks)

3. Name FOUR medium impacts of floods to the environment (4 marks)

4. Give FOUR effects of rise in sea level to our Costal towns (4 marks)

5. Name some of the environmental and social factors that may reinforce climate effects (3 marks)

6. Note using examples some of the impact of climate change to food productivity? (4 marks)

7. Identify ways in which technology can be used to mitigate the effects of climate change (4 marks)

8. International waters are important to different countries what are the things likely to cause cross – border tension? (4 marks)

9. Give your future projections on the changes that are likely to be seen on vector borne diseases as a result of climate change (4 marks)

10. Technology development and transfer is important to support climate change mitigation and adoption. How can these technologies be made to work in developing countries? (4 marks)

**SECTION B: ANSWER ANY OF THE TWO QUESTIONS IN THIS SESSION (30 MARKS)**

1  a) Name the objectives of National Adaptation Programme to our vision 2030 (5 marks)
   b) How is temperature and rainfall affecting transmission of vector borne diseases? (10 marks)

2  a) Discuss briefly some of the impact of climate change to food productivity? (5 marks)
   b) Illustrate some of the characteristics of an effective early warning system (10 marks)

3  a) Name the effects of climate change to health? (5 marks)
   b) Elaborate some of the ways in which Public Health can be used to manage the risk of climate change (10 marks)