



(University of Choice)

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

**MAIN CAMPUS**

**UNIVERSITY SPECIAL AND SUPPLEMENTARY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE DEGREE**

**OF**

**BACHELOR OF SCIENCE IN DISASTER MITIGATION AND  
SUSTAINABLE DEVELOPMENT (DMSD)**

**COURSE CODE: DSM 301**

**COURSE TITLE: GLOBAL WARMING AND CLIMATE CHANGE**

**DATE: 26/7/2022**

**TIME: 11-1 PM**

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**INSTRUCTIONS TO CANDIDATES**

This paper contains **FOUR** Questions

Answer Question **ONE** and any other **TWO** Questions

**TIME: 2 Hours**

MMUST observes **ZERO** tolerance to examination cheating

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

**Question ONE**

- (a) Distinguish between climate variability and climate change. **(10 marks)**
- (b) Describe the creation and break down of Ozone gas within the Ozonosphere. **(10 marks)**
- (c) Examine the causes of acid rain. **(10 marks)**

**Question TWO**

- (a) Examine the factors that cause drought. **(10 marks)**
- (b) Evaluate the influence of climate change on the hydrological cycle and its processes. **(10 marks)**

**Question THREE**

Discuss the impacts of climate change on each of the following aspects:

- (a) Energy resources **(10 marks)**
- (b) Agriculture and food security **(10 marks)**

**Question FOUR**

Examine the challenges encountered by the United Nations in implementing resolutions arrived at during Climate Change Conventions. **(20 marks)**