



(University of Choice)

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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2023/2024 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: 6/12/2023

TIME: 12-2 P.M

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 (30 Marks)

- a) Distinguish between the following terms:
 - i) Weather and climate **(5 Marks)**
 - ii) Climatology and climate change **(5 Marks)**
- b) Examine the guidelines adopted under the UN General Assembly for use in the negotiations during international conventions on climate issues. **(8 Marks)**
- c) Discuss the influence of the global climate change politics on setting targets for reducing emissions. **(12 Marks)**

Question TWO (20 Marks)

- a) Account for the causes and impacts of desertification. **(8 Marks)**
- b) Discuss the impacts of each of the **THREE** (3) types of UV radiations on the environment and human health **(12 Marks)**

Question THREE (20 Marks)

- a) Examine the effects of acid rain on:
 - i) Lakes and aquatic communities **(5 Marks)**
 - ii) Human health **(5 Marks)**
- c) Explain any **FIVE** (5) evidences for the occurrence of climate change globally. **(10 Marks)**

Question FOUR (20 Marks)

- a) Describe the atmospheric greenhouse gas effect. **(12 Marks)**
- b) Discuss the regional efforts towards building resilience and resistance to climate change in East Africa. **(8 Marks).**