(10)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

MAIN EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE
OF
MSc IN CLIMATE CHANGE ADAPTATION FOR SUSTAINABLE DEVELOPMENT

COURSE CODE: DPM 800

COURSE TITLE: CLIMATE CHANGE SCIENCE AND GLOBAL PERSPECTIVE

DATE: 18/12/2023   **TIME: 8-11 AM**

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

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

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

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SECTION 1: COMPULSORY {20 MARKS}

Question ONE

(a) (i) Identify and explain the parameters of climate risk (6 Marks)

    (ii) Using examples, define the term "climate forcing" (3 Marks)

(b) Briefly discuss the impact of climate change on ocean acidification (3 Marks)

(c) Explain the purpose and functions of the Conference of Parties to the United Nations Convention on Climate Change? (8 Marks)

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

Question TWO

Critically examine the achievements to the carbon trading highlighting any obstacles to the process

(20 Marks)

Question THREE

The Montreal Protocol on Substances that Deplete the Ozone Layer is the landmark multilateral environmental agreement that regulates the production and consumption of nearly 100 man-made chemicals referred to as ozone depleting substances (ODS).

(a) Identify the gases that are regulated under the Montreal Protocol   (4 Marks)

(b) Outline the key achievements of the Montreal Protocol   (10 Marks)

(c) Examine the challenges developing countries face in complying with the measures of the protocol

(6 Marks)

Question FOUR

The Kyoto Protocol was designed to fail. Discuss   (20 Marks)

Question FIVE

(a) Explain the term climate change adaptation?   (3 Marks)

(b) What is climate change policy coherency?   (5 Marks)

(c) Discuss how you can achieve climate change and disaster risk reduction policy coherence in Africa

(12 Marks)