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

MAIN EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS

**FOR THE BACHELOR OF SCIENCE DEGREE IN CLIMATE CHANGE
ADAPTATION AND SUSTAINABLE DEVELOPMENT**

COURSE CODE: DSC 113

COURSE TITLE: Introduction to Meteorology

DATE: 13/12/2023

TIME: 8-10 A.M

INSTRUCTIONS TO CANDIDATES

Question ONE (1) is compulsory
Answer any other TWO (2) 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). Explain any ten (10) weather elements that are crucial for weather forecasting **(10 Marks)**
- b). Describe any physical and chemical characteristics of the five basic layers of the atmosphere **(20 Marks)**

Question TWO (15 marks)

Weather occurs at different scales of space and time, discuss any three different scales of meteorology **(15 Marks)**

Question THREE (15 marks)

Examine different types of weather forecasting **(15 Marks)**

Question FOUR (15 marks)

Outline any three steps involved in weather forecasting **(15 Marks)**