



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN CLIMATE CHANGE ADAPTATION AND SUSTAINABLE DEVELOPMENT

COURSE CODE:

DSC112

COURSE TITLE:

INTRODUCTION TO EARTH SCIENCE

DATE: 14/12/2023

TIME: 8-10 A.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 branches of Earth Science:
 - i) Climatology and meteorology

(4 Marks)

ii) Geology and oceanography

(4 Marks)

b) Using a suitable illustration, describe the spheres of the Earth.

(15 Marks)

c) Briefly explain the concept of isostasy in relation to the Earth Crust.

(7 Marks)

Question TWO (15 marks)

a) Outline the characteristics of minerals.

(5 Marks)

b) Distinguish between mechanical and chemical weathering.

(5 marks)

c) Explain the factors which influence the rate of weathering of rocks.

(5 Marks)

Question THREE (15 marks)

Using a well labelled diagram, the processes involved in the hydrological cycle. (15 Marks)

Question FOUR (15 marks)

a) Explain the major types of ecosystems.

(7 Marks)

b) Examine the causes and effects of eutrophication in water bodies

(8 Marks)