

(University of Choice)

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER MAIN EXAMINATIONS
FOR THE BACHELOR OF SCIENCE

IN

DISASTER MITIGATION AND SUSTAINABLE DEVELOPMENT

**COURSE CODE:** 

**DSM 113** 

**COURSE TITLE:** 

**BIODIVERSITY AND SUSTAINABLE** 

DEVELOPMENT

**DATE:** 5/12/2023

**TIME: 12-2 P.M** 

#### **INSTRUCTIONS TO CANDIDATES**

Question ONE (1) is compulsory Answer any other TWO (2) questions

MMUST observes ZERO tolerance to examination cheating

### **QUESTION ONE (30 Marks)**

- a) Discuss the significance of biodiversity to humans and the environment (14 Marks)
- b) Discuss the three main levels of biodiversity (6 Marks)
- c) Discuss global, regional and local threats to biodiversity in Africa (10 Marks)

### **QUESTION TWO (15 Marks)**

- a) Explain the importance of emphasizing on biodiversity conservation in the contemporary society (5 Marks)
- b) Examine the importance of biodiversity in attainment of sustainable development goals (10 Marks)

# **QUESTION THREE (15 Marks)**

- a) Discuss the principles of biodiversity embraced in their relationship with humans. (5 Marks)
- b) Discuss the key pillars of sustainable development and their application to biodiversity (10 Marks)

# **QUESTION FOUR (15 Marks)**

- a) Using relevant examples from your community, discuss the challenges facing Africa in the implementation of sustainable development in the context of biodiversity conservation. (10 Marks)
- b) Using relevant examples from your community, explain the concept 'Ex-situ' and the methods applied in ex-situ biodiversity conservation. (5 Marks)