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(University of Choice)

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

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

**BACHELOR OF SCIENCE IN DISASTER MITIGATION AND
SUSTAINABLE DEVELOPMENT**

COURSE CODE: DSM 201

**COURSE TITLE: ECOSYSTEM MANAGEMENT AND
CONSERVATION**

DATE: 6/12/2023

TIME: 12-2 P.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) Distinguish between the following terms with reference to ecosystem management and conservation:
- i) Population stability and population decline **(6 Marks)**
 - ii) Competition and predation **(6 Marks)**
- b) Account for the ecological services provided by the following ecosystems:
- i) Forests **(5 Marks)**
 - ii) Wetlands **(5 Marks)**
- c) Briefly explain **three** (3) important aspects considered in ecosystem based management **(8 Marks)**

Question TWO (20 marks)

- a) Examine the contribution of the following factors towards biodiversity loss:
- i) Commercial hunting and poaching **(5 Marks)**
 - ii) Pets and decorative plants **(5 Marks)**
- b) Discuss the predisposing factors of species extinction. **(10 Marks)**

Question THREE (20 marks)

- a) Explain the importance of stakeholder analysis in ecosystem management for an area. **(10 Marks)**
- b) Discuss the role of government agencies in collaborative ecosystem management. **(10 Marks)**

Question FOUR (20 marks)

- a) Outline the components of an ecosystem management plan. **(10 Marks)**
- b) Examine the importance of capacity building in ecosystem management and conservation. **(10 Marks)**