



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR
FIRST YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF SCIENCE IN SUSTAINABLE
FOREST MANAGEMENT**

COURSE CODE: SFM 1103-1

**COURSE TITLE: INTRODUCTION TO
FOREST ECOSYSTEMS AND BIODIVERSITY**

DATE: 7/2/2024

TIME: 0830-1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer All questions in Section A, and Any three in section B.

SECTION A

ANSWER ALL QUESTIONS IN THIS SECTION (20 Marks)

1. Define “a forest” in the ecological context (2 marks)
2. Describe the three (3) major types of forests (6 marks)
3. Differentiate between a plantation and a natural forest (3 marks)
4. Explain why foresters need professional ethics while undertaking forest conservation and management (4 marks)
5. Distinguish between forest degradation and deforestation? (2 marks)
6. Explain the importance of forest policy in a given country like Kenya (3 marks)

SECTION B

ANSWER ANY THREE QUESTIONS (30 Marks)

8. Describe five (5) techniques of sustainable forest conservation for improving forested areas (10 marks)
9. Discuss ten (10) main objectives of silvicultural practices (10 marks)
10. Explain the major importance of forests to human lives (10 marks)
11. Discuss the classification of forests on the basis of:
 - (i) Age
 - (ii) Method of regeneration
 - (iii) Composition
 - (iv) Ownership
 - (v) Object of Management (10 marks)
12. Discuss the main challenges of both forest and natural resource conservation in Kenya (10 marks).

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