



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER

**SCHOOL OF NATURAL RESOURCES,
ENVIRONMENTAL STUDIES AND
AGRICULTURE**

**BACHELOR OF SCIENCE IN WILDLIFE
RESOURCE MANAGEMENT**

COURSE CODE: SFM 1105-1

COURSE TITLE: PLANT ECOLOGY

DATE: 20/5/2024

TIME : 1430-1630 HRS

INSTRUCTIONS TO CANDIDATES

Answer **All** the Questions in Section A and any **THREE** IN SECTION B
*This paper consists of **TWO** printed pages. Please turn over*

SECTION A (20 MARKS)

1. Define the term plant ecology and outline its significance in the field of biology **(4 Marks)**
2. Explain two (2) methods for estimating plant biomass in ecological studies **(4 Marks)**
3. Explain the concept of vegetation mapping and its importance in plant ecology research **(4 Marks)**
4. Name the four (4) types of ecological interactions between plants and their environment **(4 Marks)**
5. Describe primary productivity and its significance in ecological research studies **(4 Marks)**

SECTION B: ANSWER ANY THREE QUESTIONS (30)

6. Discuss the significance of plant taxonomy in plant ecology studies **(10 Marks)**
7. Discuss the role of plant ecology in the conservation of floral diversity **(10 Marks)**
8. a) Explain the concepts of taxa in plant ecology **(4 Marks)**
b) Discuss how the classification of plants into taxa aid in organizing ecological information and understanding patterns of biodiversity **(6 Marks)**
9. Discuss the impact of climate change on plant ecology **(10 Marks)**

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