



MAASAI MARA UNIVERSITY

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

**SCHOOL OF NATURAL RESOURCE,
ENVIRONMENTAL STUDIES & AGRICULTURE
DIPLOMA IN TOURISM AND WILDLIFE
MANAGEMENT**

COURSE CODE: NDTW 131

**COURSE TITLE: INTRODUCTION TO PLANT
COMMUNITIES OF EAST AFRICA.**

DATE: 15/12/2023

TIME: 1430-1630 HRS

INSTRUCTIONS

Answer **ALL** questions in section A and any **THREE** questions in section B.
Give illustrations and examples where necessary.

SECTION A: COMPULSORY (25 Marks)

1. *Describe* **THREE** biotic and **TWO** abiotic factors that affect plant communities in a given ecosystem. **4 mark**

2.
 - i. What is an herbarium? **3 marks**
 - ii. With well-illustrated diagrams, *describe* the steps involved in herbarium technique **12 marks**

3. Write *short notes* on the major characteristic of different plant vegetation of East Africa. **5 marks**

SECTION B: Attempt ANY THREE questions. (45 marks)

1. Plant disease is defined as the state of local or systemic abnormal physiological functioning of a plant, resulting from the continuous, prolonged 'irritation' caused by pathogenic organisms. *Explain* 5 pathogens and the diseases that they are likely to cause to plants. In that note provide way in farmers can manage the plant diseases in their farms. **15marks**

2.
 - i. Distinguish between **active** and **passive** forest management. **2 marks**
 - ii. *Explain* how sustainable development could come into play in forest management. **3 marks**
 - iii. With relevant examples, *explain* the benefits of forest management **10 marks**

3. *Discuss* Adaptation of different plant communities to their different environment. **15 marks**

4. Distinguish the following terms;
 - a) Economic botany and ethnobotany **2marks**

 - b) What are the benefits of mixing different breeds through crossbreeding compared to the drawbacks of breeding closely related individuals, known as in breeding? **2marks**
 - c) Photosynthesis is one of the many plants physiological processes, briefly *describe* the process of photosynthesis. **11 marks**

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