



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2022/ 2023 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER**

**SCHOOL OF NATURAL RESOURCE, TOURISM &
HOSPITALITY
DIPLOMA IN TOURISM AND WILDLIFE
MANAGEMENT.**

COURSE CODE: NDTW 131

**COURSE TITLE: INTRODUCTION TO PLANT COMMUNITIES OF
EACT AFRICA**

DATE: 6TH DECEMBER, 2022

TIME: 1430-1630

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. Distinguish the following terms;

5 marks

- i. Economic botany, paleobotany and ethnobotany
- ii. Omega taxonomy and Gamma taxonomy
- iii. Active forest management and passive forest management.

- iv. Plant morphology and plant anatomy
- v. Crossbreeding and inbreeding

2. Describe **two** climatic and **two** edaphic factors that affect the distribution of plant communities in a given ecosystem.

4 marks

3. Identify and describe **four** plant features that are used in plant identification and classification.

4 marks

4. Write short notes on:

i. plant hormones

7marks

ii. 5 different plant vegetations of East Africa.

5marks

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. Discuss Adaptation of different plant communities to their different environment.

15 marks

3.

i. Explain how sustainable development could come into play in forest management.

5 marks

ii. With relevant examples, explain the benefits that accrue with active forest management

10 marks

4.

i. What is an herbarium?

3 marks

ii. With well-illustrated diagrams, describe the steps involved in herbarium technique

12 marks

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