



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER**

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

**COURSE CODE: NDTW 131
COURSE TITLE: INTRODUCTION TO PLANT
COMMUNITIES OF EAST AFRICA**

DATE: 17.4.2019

TIME: 11.00AM - 1.00PM

INSTRUCTION TO CANDIDATES

- This paper has two sections A & B.
- Answer question **ONE** in section A and any **TWO** in section B.

SECTION A : ANSWER QUESTION ONE (30MKS)

QUESTION 1

- (a) Using relevant examples explain the meaning of the following biological interactions **(6mks)**
- (i) Ammensalism.
 - (ii) Commensalism.
 - (iii) Parasitism.
- (b) Distinguish between beneficial and essential elements with regard to plant nutrition. Give an example in each case. **(4mks)**
- (c) Name **four** beneficial elements and explain their roles in plants. **(8mks)**
- (d) Explain **four** types of plant fossils. **(8mks)**
- (e) Describe the components of disease quadrangle. **(4mks)**

SECTION B: ANSWER ANY TWO QUESTIONS (40MKS)

QUESTION 2

- (a) State **four** differences between macronutrients and micronutrients. **(4mks)**
- (b) State **four** reasons why morphological features are predominantly used in plant classification. **(4mks)**
- (c) Explain **six** vegetative features that are used in plant classification. **(12mks)**

QUESTION 3

- (a) Distinguish between the following terms as used in plant pathology.
- (i) Plant disease and plant injury **(2mks)**
 - (ii) Signs and symptoms **(2mks)**
- (b) Explain **six** ways in which pathogens cause diseases in plants. **(6mks)**
- (c) State the functions and deficiency symptoms of the following elements in plant growth. **(10mks)**

Element	Function	Deficiency
Phosphorus		
Nitrogen		
Iron		
Magnesium		
Potassium		

QUESTION 4

- (a) Explain the term forest management. **(2mks)**
- (b) State **six** reasons for harvesting trees in forest management. **(6mks)**
- (c) Discuss **six** methods of harvesting trees as a technique of forest management. **(12mks)**

//END