



MAASAI MARA UNIVERSITY

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

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

**COURSE CODE: NDTW 116
COURSE TITLE: INTRODUCTION TO ECOLOGY**

DATE: 29TH AUGUST, 2019

TIME: 0830 - 1030 HRS

INSTRUCTIONS TO CANDIDATES

1. Answer Question **ONE** and any other **THREE** questions
2. Do not forget to write your Registration Number

This paper consists of 2 printed pages. Please turn over.

SECTION A (COMPULSORY)

1.) Distinguish the following terms

a) Distribution and abundance (2.5 marks)

b) Species richness and species evenness (2.5 marks)

2.) Highlight key processes that affects distribution and abundance of organisms (5 marks)

3.a.) What is biological diversity (2 marks)

b.) State the 3 key components of biological diversity (3 marks)

4.) List some endemic birds found in Kenya (5 marks)

5.) Explain different types of species interaction (10marks)

SECTION B (Answer any two questions)

6.) Outline and explain how various climatic factors that affect the distribution and abundance of wildlife in Kenya (20marks)

7.a) Explain the difference between primary productivity and secondary productivity. And by the use of ecological pyramid, explain how energy flows to different energy levels (10marks)

b.) What do you understand by biological organization? Briefly explain the 4 levels of ecological organization (10 marks)

8.a) Highlight and explain different types of species (10marks)

b) Using specific examples, explain various defense strategies that animals use to defend themselves against predation (10marks)

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