



# **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: 29. 4. 2019**

**TIME: 8.30 – 10.30AM**

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**INSTRUCTIONS TO CANDIDATES**

Answer questions ONE and any other **THREE**

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

**SECTION A: QUESTION ONE IS COMPULSORY (25Mks)**

**QUESTION ONE**

- a) Define the following terms as used in ecology **(5Mks)**  
(i) Ecology (ii) Ecosystem (iii) Autecology (iv) Niche (v) population
- b) Elaborate 5 different types of species recognized in ecology **(5Mks)**
- c) (i) State the law of competitive exclusion principle **(2Mks)**  
(ii) Distinguish between infanticide and Siblicide **(3Mks)**
- d) Outline characteristics of lentic/standing water **(5Mks)**
- e) Elaborate animal defenses against predation **(5Mks)**

**SECTION B: ANSWER ANY THREE QUESTIONS (45Mks)**

**QUESTION TWO**

With sufficient details elaborate general types of species interactions portrayed in organisms **(15Mks)**

**QUESTION THREE**

Citing examples, discuss abiotic factors that affect the distribution and abundance of organisms in Africa **(15Mks)**

**QUESTION FOUR**

With sufficient details, explain the principle factors that operate in an aquatic ecosystem **(15Mks)**

**QUESTION FIVE**

With an aid of well labeled diagram, discuss communities involved in ecological succession **(15Mks)**

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