



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2023/2024 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCE,  
ENVIRONMENTAL STUDIES &  
AGRICULTURE**

**CERTIFICATE IN TOURISM AND WILDLIFE  
MANAGEMENT**

**COURSE CODE: CTW 008**

**COURSE TITLE: INTRODUCTION TO  
ECOLOGY.**

**DATE: 5/2/2024**

**TIME: 1100-1300 HRS**

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**Instructions:**

*Answer ALL questions in section A and any other THREE in section B.*

## **SECTION A – (25 MARKS)**

### **QUESTION ONE**

- A. Define the following (5 Marks)**
- I. Camera trapping
  - II. Ecotone
  - III. Keystone Species
  - IV. Commensalism
  - V. Amensalism
- B. State the law of competitive exclusion principle (3 Marks)**
- C. With the aid of diagrams, show the difference between a food web from a food chain (3 Marks)**
- D. Describe the different types of competition (5 Marks)**
- E. State abiotic factors of the environment that sustain the lives and reproductive cycles of organisms. (5mks)**
- F. Distinguish between the following terms as used in ecology (4 Marks)**
- a) Niche segregation from realized niche
  - b) Territory and home range

## **SECTION B-(45MARKS)**

### **QUESTION TWO**

With the aid of diagrams, and or illustrations, discuss in details the differentiate the types of ecological succession **(15 Marks)**

### **QUESTION THREE**

With appropriate examples, discuss strategies different prey species use to avoid predation **(15 Marks)**

### **QUESTION FOUR**

Discuss in details biotic interaction between and among organisms **(15 Marks)**

### **QUESTION FIVE**

- a) With the aid of a diagram, show the difference between exponential and logistic population growth **(5 Marks)**
- b) Give detailed distinction between R-selected and K-selected species **(10 Marks)**

**/END/**