



**MAASAI MARA UNIVERSITY**  
**SCHOOL OF NATURAL RESOURCE,**  
**TOURISM & HOAPITALITY**  
**CERTIFICATE IN TOURISM AND**  
**WILDLIFE MANAGEMENT**  
**2021/2022 ACADEMIC YEAR**  
**END OF SEMESTER EXAM**  
**FIRST YEAR FIRST SEMESTER**  
**COURSE CODE: CTW 008**  
**COURSE TITLE: INTRODUCTION TO**  
**ECOLOGY**

**DATE:**

**TIME:**

**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. Ecology
  - ii. Crepuscular
  - iii. Ecotone
  - iv. Commensalism
  - v. Amensalism
- B.** State the law of competitive exclusion principle (3 marks)
- C.** With the aid of diagrams Only, 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) Weather and Climate change
  - b) Carrying capacity 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(10marks)