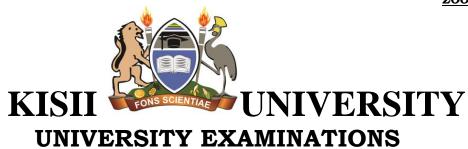
(4 marks)



SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF SCIENCE BIOCHEMISTRY FIRST SEMESTER 2022/2023 [SEPTEMBER-DECEMBER, 2022]

ZOOL 210: ECOLOGY

STREAM: Y2S1 TIME: 2 HOURS

DAY: TUESDAY, 12:00 - 2:00 PM DATE: 20/12/2022

INSTRUCTIONS

1. Do not write anything on this question paper.

2. Answer ALL the questions in Section A and any TWO in Section B.

SECTION A

QUESTION ONE

a.	Explain metapopulation concept.	(4 marks)
b.	Describe the uses of territories.	(4 marks)
c.	Contrast resource partitioning from competitive exclusion pr	inciple. (4 marks)
d.	Explain the concept of parasitism as one way of organism in	teraction. (4 marks)
e.	Discuss the trophic structure of a community.	(4 marks)
f.	Describe foraging theory concept.	(4 marks)
g.	Explain the effects of herbivory on plant fitness.	(4 marks)
h.	Describe the ways in which wind influences plant distribution	n. (4 marks)

i. Discuss the functional response in predation.

j. Explain the importance of the study of population to ecologists.

(4 marks)

SECTION B

QUESTION TWO

- a. Discuss how the level of tolerance of an organism affects its survival in different environmental condition. (5 marks)
- b. Describe the importance of the four seasons in an organism habitat.

(5 marks)

c. Explain this connotation "fitness is more than numbers". (5 marks)

QUESTION THREE

a. Describe the characteristics of the tundra biome. (5 marks)b. Describe the adaptation of the tundra animals. (5 marks)

c. Explain the adaptation of the desert animals. (5 marks)

QUESTION FOUR

Discuss the survivorship curves of organisms in its entire lifespan.

(15 marks)