

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN WILDLIFE ENTERPRISE AND MANAGEMENT**

WIEM 121: FUNDAMENTALS OF ECOLOGY

STREAMS: BSC WIEM Y1S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 12/04/2023

11.30 A.M – 1.30 P.M

INSTRUCTIONS:

Answer all questions in SECTION A and any two in SECTION B

Section A carries 30 marks and section B 40 marks

Do not write anything on the question paper

SECTION A (30 MARKS)

1. Briefly describe any six different biomes found in the world. [6 marks]
2. Give a brief description of the phosphorous mineral cycle. [6 marks]
3. Briefly explain the value of biodiversity to humans. [4 marks]
4. Write short notes on the impacts of climate change on biodiversity. [4 marks]
5. Elaborate on the different attributes of biodiversity. [4 marks]
6. List any five ecological principles. [5 marks]

SECTION B (40 MARKS)

7. (a) Discuss the different types of species interactions that occur in a community. [10 marks]

(b) Describe diseases that are associated with particular types of species interactions. [10 marks]

8. Explain how energy flows through a forest ecosystem. [20 marks]

9. Discuss the different types of succession. [20 marks]
