

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

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

**WIEM 121: FUNDAMENTALS OF ECOLOGY**

**STREAMS: BSC WIEM Y1S2**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 23/03/2021**

**11.30 A.M – 1.30 P.M**

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**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 on the question paper**

**SECTION A ( 30 MARKS)**

1. Explain the meaning of the following terms in ecology
  - (a) Biodiversity [2 marks]
  - (b) Succession [2 marks]
  - (c) Amensalism [2 marks]
2. Briefly elaborate on the different attributes of biodiversity. [6 marks]
3. Briefly explain the causes of climate change. [5 marks]
4. Briefly explain the value of biodiversity to human beings. [4 marks]
5. Draw a simple food web for an apex predator. [4 marks]
6. Briefly differentiate between forest and woodlands biomes. [5 marks]

**SECTION B (40 MARKS)**

7. Discuss five ecological principles and their key supporting concepts. [20 marks]
8. Using a diagram, discuss the processes that take place in the hydrological cycle. [20 marks]

9. Discuss four biological interactions occurring between organisms in an ecosystem. [20 marks]
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