

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS  
RESIT/SPECIAL EXAMINATION**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE**

**WIEM 121: FUNDAMENTALS OF ECOLOGY**

**STREAMS: BSC**

**TIME: 2 HOURS**

**DAY/DATE: FRIDAY 01/09/2023**

**8.30 A.M – 10.30 A.M.**

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**INSTRUCTIONS**

- Answer all questions in section A (30 marks) and any two in section B (40 marks)
- **Do Not write on the question paper**

**SECTION A (30 marks)**

1. Enumerate any five ecological principles (5 marks)
2. Briefly describe the different types of successions (6 marks)
3. Briefly explain the value of biodiversity to humans (4 marks)
4. Give a brief description of the hydrological cycle (6 marks)
5. Describe the impacts of climate change on the environment (4 marks)
6. Elaborate on the different attributes of biodiversity (5 marks)

**SECTION B (40 marks)**

7. Discuss the different types of species interactions that occur in a community and give examples (20 marks)
  8. (a) Discuss the importance of primary producers in an ecosystem (10 marks)  
(b) Discuss the role of an apex predator in an ecosystem
  9. Discuss the different types of biomes found in the world (20 marks)
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