

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.

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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