

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION  
(SCIENCE), AND BACHELOR OF SCIENCE

ZOOL 210: ECOLOGY

STREAMS: BSC, BED (SCI)Y2S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY06/12/2017

11.30 A.M. – 1.30 P.M.

**INSTRUCTIONS: Answer ALL the questions in section A and TWO questions in section B**

**SECTION A (50 MARKS)**

1. State the adaptive mechanisms of a named prey species in a grassland ecosystem. [5 marks]
2. Outline density dependent factors that influence populations growth. [5 marks]
3. Explain how human activities can negatively impact the carbon cycle. [5 marks]
4. Outline abiotic characteristics of tropical grassland ecosystem. [5 marks]
5. Give possible reasons for the high productivity observed in the littoral zone of a fresh water lake. [5 marks]
6. Describe changes that occur in the composition of the animal community during primary succession. [5 marks]

**SECTION B (20 MARKS)**

7. Discuss human activities that adversely affect ecosystem resilience.[20 marks]
  8. Describe the biotic and abiotic characteristic of estuaries. [20 marks]
  9. Illustrate with a diagram and discuss the hydrological cycle. [20 marks]
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