

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 400/NARE 459: ECOLOGICAL SURVEYS AND TECHNIQUES

STREAMS: B.Sc (ENSC) & B.SC (NARE) Y4S1

TIME: 2 HOURS

DAY/DATE: FRIDAY 14/12/2018

2.30 P.M - 4.30 P.M.

INSTRUCTIONS

- Answer ALL questions in Section A and any TWO in Section B
- Do not write anything on the question paper

SECTION A: [30 MARKS] - ANSWER ALL QUESTIONS

1. Highlight FOUR variables that describe environmental gradient. [4 Marks]
2. Briefly explain FIVE ecological classifiers. [5 Marks]
3. State THREE guiding principles ecological classification. [3 Marks]
4. Describe THREE roles of ecological survey. [6 Marks]
5. Briefly discuss the application of remote sensing in ecological survey. [6 Marks]
6. Highlight THREE circumstances that would require use of a questionnaire in an ecological survey. [3 Marks]

SECTION B: [40 MARKS] - ANSWER TWO QUESTIONS

7. Discuss the application of ecological survey techniques in protected areas in Kenya. [20 Marks]
  8. Discuss the techniques used in counting various mammal species. [20 Marks]
  9. Discuss measurement methods for different environmental variables as an integral part of ecological field research. [20 Marks]
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