

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

NARE 456: ECOLOGICAL SURVEYS AND TECHNIQUES

STREAM: BSc. ENSC Y4S1& NARE Y4S1

TIME: 2 HOURS

DAY/DATE: THURSDAY 04/02/2021

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

SECTION A (30 MARKS) Answer all questions

1. Briefly explain the application of the following in ecological survey; (6 marks)
 - a) Quadrants
 - b) Transects
2. Describe five observable signs during mammal count (5 marks)
3. State five guiding principles in ecological classification (5 marks)
4. Differentiate between camera trapping and mist netting (4 marks)
5. Briefly discuss the application of remote sensing in ecological survey (6 marks)
6. Briefly describe any four parameters measured during water sampling (4 marks)

SECTION B (40 MARKS) Answer only TWO questions

7. Discuss effects of abiotic factors to the distribution of species in an ecosystems. (20 marks)
8. Discuss the techniques you would use for counting fish and amphibians (20 marks)
9. Discuss various considerations made during preparation for a field activity (20 marks)