



(Knowledge for development)

KIBABII UNIVERSITY UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR SECOND YEAR FIRST SEMESTER

(MAIN EXAMINATION)

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIORESOURCES
MANAGEMENT AND CONSERVATION

COURSE CODE

: SBC 214

COURSE TITLE

: ANIMAL SAMPLING TECHNIQUES

DATE:

15th January 2018

TIME: 2:00 -4:00 p.m.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over

| 1. a) Define the following terms applied in ecology. | (5marks) |
|--|-------------------------|
| i) A community. | |
| ii) Population. | |
| iii) Sampling | |
| iv) A frame quadrat. | |
| v) Biomass. | |
| b) Assume that you sampled a strip of 1000 m long and a width of your strip was was the sampled area? | 200m. What (5marks) |
| c) Briefly describe a model with population with discrete generations that can also summarized with two equations. | 5 be (5marks) |
| d) State FIVE reasons why ecologists are fond of constructing mathematical or g models. | raphical (5marks) |
| e) What is meant by "remote sensing" | (5marks) |
| f) Explain the meaning of animal population dynamics and state it's importance | (5marks) |
| 2. Discuss the technique of "mark- release-recapture" as used in estimation of a p | oopulation (20marks) |
| 3. Discuss "biogeochemical cycling" and cite a suitable example | (20marks) |
| 4. Discuss the procedure of using quadrats in the estimation of population sizes. | (20marks) |
| 5. Discuss methods used in sampling of benthic organisms. | (20marks) |
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