



(Knowledge for Development)

## KIBABII UNIVERSITY

## **UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR**

## FIRST YEAR SECOND SEMESTER

SUPPLEMENTARY/SPECIAL EXAMS

FOR THE DEGREE OF BACHELOR OF SCIENCE BIORESOURCE MANAGEMENT AND CONSERVATION

COURSE CODE:

**SBC 214** 

COURSE TITLE:

ANIMAL SAMPLING TECHNIQUES

DATE:

4/10/2018

TIME: 3:00-5:00 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



KIBU observes ZERO tolerance to examination cheating

1. a) Discuss the population dependent and independent factors and how they affect population	
fluctuations.	(5marks)
b) Explain the concept/principle of natural exclusion.	(5marks)
c) Name <b>FIVE</b> techniques that are used in estimating of population size.	(5marks)
d) Why are multivariate statistical techniques used in ecology?	(5marks)
e) Define the meaning of Leslie matrix.	(5marks)
f) What are the criteria for selecting capture and collecting methods?	(5marks)
2. What are conditions that are necessary for the technique of "mark- release-recapture" to	
reasonable estimation of a population size?	(20marks)
3. Write an essay on remote sensing and biotelemetry.	(20marks)
4. Energy flow in a given ecosystem is very essential to livelihoods. Discuss.	(20marks)
5. What are the causes of animal population dynamics?	(20marks)