



KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2015/2016 ACADEMIC YEAR SECOND YEAR SECOND SEMESTER MAIN EXAMINATION

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

COURSE CODE: SBC 223

COURSE TITLE: TECHNIQUES IN BIORESOURCES MANAGEMENT

DATE: 4TH MAY 2016

TIME: 9 – 11 AM

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



KIBUCO observes ZERO tolerance to examination cheating

QUESTION ONE

- a. Distinguish the following pair of words or phrases
 - i. Species diversity and species abundance (2Marks)
 - ii. Species richness and species evenness (2 Marks)
 - iii. r-select and k- select carrying capacity (2 Marks)
- b. Describe how you can measure species diversity. (4 Marks)
- c. Briefly outline common approaches to plant identification. (5 Marks)
- d. Explain the concept of carrying capacity as applied to wildlife management. (5 Marks)
- e. Describe any three survey methods in wildlife population monitoring. (5 Marks)
- f. Outline the key indicators for determining habitat quality of a land based impact site. (5 Marks)

QUESTION TWO

You have been hired by Lake Nakuru Nation Park to conduct a wildlife census. Describe how you go about this task. (20 Marks)

QUESTION THREE

Citing relevant examples, discuss how wild animals respond to changing environmental factors. (20 Marks)

QUESTION FOUR

Discuss the main techniques of wildlife monitoring in a protected area. (20 Marks)

QUESTION FIVE

Citing relevant examples, describe how biotic and abiotic factors influence wildlife population distribution. (20 Marks)