



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 225
COURSE TITLE: FORESTS AND WILDLIFE

DATE: 3RD May 2016

TIME: 9 – 11 a.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



KIBUCO observes ZERO tolerance to examination cheating

QUESTION ONE

- a. Define the following terms as used in forestry
 - i. Forest structure (2 Marks)
 - ii. Forest ecology (2 Marks)
 - iii. Physiognomy (2 Marks)
 - iv. Forest stand (2 Marks)
 - v. Phenotype (2 Marks)
- b. Explain the main approaches to forest classification. (5 Marks)
- c. Describe the main characteristics of tropical forests that favour wildlife existence. (5 Marks)
- d. Briefly explain the main forest types in the world. (5 Marks)
- e. Describe the main characteristics of forest fauna. (5 Marks)

QUESTION TWO

Using an Illustration, discuss nutrient cycling in tropical forest ecosystems. (20 Marks)

QUESTION THREE

Discuss the impacts of deforestation on wildlife. (20 Marks)

QUESTION FOUR

“Degradation of tropical forest resources is closely linked to illegal or excessive use”. Justify this statement. (20 Marks)

QUESTION FIVE

As a manager of a given forest, step by step describe how you will develop a management plan of your forest. (20 marks)