



# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2015/2016 ACADEMIC YEAR FIRST YEAR SECOND SEMESTER MAIN EXAMINATION**

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

**COURSE CODE: SBC 123**

**COURSE TITLE: PRINCIPLES OF BIORESOURCE MANAGEMENT**

**DATE: 6<sup>TH</sup> MAY 2016**

**TIME: 9 – 11 AM**

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### **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 3 printed pages. Please Turn Over



KIBUCO observes ZERO tolerance to examination cheating

## QUESTION ONE

- a) Define the following terms:
  - i) Biological resources
  - ii) Wildlife
  - iii) Watershed
  - iv) Natural area
  - v) Resilience(5 marks)
- b) State the major objectives of a watershed management program. (5marks)
- c) State **five** causes of fresh water degradation. (5 marks)
- d) Explain the term integrated pest and nutrient management (INM) as used in bioresources.(5 marks)
- e) State **five** reasons for restoring ecosystems (5 marks)
- f) State **five** reasons why conservation should be linked to development (5marks)

## QUESTION TWO

Describe **five** factors that have led to the decline of biological resources (20 marks)

## QUESTION THREE

- a) Explain the following principles as used in bio resource management
  - (i) Sustainable livelihood approach (SLP)(5 marks)
  - (ii) Ecosystem approach (EA)(5marks)
- b) Explain the factors that have led to human wildlife conflict in Kenya(10 marks)

#### **QUESTIONFOUR**

The natural integrity of an ecosystem is assessed by evaluating the composition, structure and functions of a habitat and comparing to the composition, structure and functions of the system originally present.

Identify any **five** management approaches of restoration/maintenance of natural heritage areasite.

**(20marks)**

#### **QUESTION FIVE**

Discuss factors that influence production, growth and depletion of bio resources **(20 marks)**