



*(Knowledge for Development)*

# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR**

### **FIRST YEAR SECOND SEMESTER MAIN EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY**

**COURSE CODE: SES 123**

**COURSE TITLE: FUNDAMENTALS OF ENVIRONMENTAL  
SCIENCE**

**DATE: 13<sup>TH</sup> APRIL 2023      TIME: 2.00 – 4.00 PM**

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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



KIBU observes ZERO tolerance to examination cheating

### QUESTION ONE

A) Explain your understanding of the terms below as used in Environmental science: -

- i. Atmosphere (1.5 marks)
- ii. Biotic environment (1.5 marks)
- iii. Screening (1.5 marks)
- iv. Autotrophs (1.5marks)
- v. Primary consumers (1.5marks)
- vi. The Polluter-Pays Principle (1.5marks)

B) Explain the importance of environmental conservation (4 Marks)

C) Outline **Five main** sources of environmental pollutants (5 Marks)

D) Explain the fact that humans are to blame for causing environmental globally. (6 Marks)

E) Briefly explain the **Three** Pillars of Sustainable Development . (6 Marks)

### QUESTION TWO

National Environment Management Authority (NEMA) is mandated with the responsibility to management the Kenyan Environment. Discuss. (20 Marks)

### QUESTION THREE

In sufficient details, discuss the main principles of natural resources conservation and management . (20 marks)

### QUESTION FOUR

Discuss the main steps in Environmental Impact Assessment in Kenya. (20 Marks)

### QUESTION FIVE

Discuss the values of the following: -

- a) Forests
- b) Wildlife (20 Marks)

END