



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR**

**SECOND YEAR FIRST SEMESTER  
MAIN EXAMINATIONS**

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

**COURSE CODE: SES 211**

**COURSE TITLE: FUNDAMENTALS OF ENVIRONMENTAL  
SCIENCE**

**INSTRUCTIONS TO CANDIDATES**

Answer Question one (1) and any other two (2) Questions. Question one carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



**DATE: 13<sup>TH</sup> December 2022**

**TIME: 8.00 – 10.00 am**

---

KIBU observes ZERO tolerance to examination cheating

### **QUESTION ONE**

- a) Define the following concepts **(10 marks)**
- i) Environment
  - ii) Environmental audit
  - iii) Biological resources
  - iv) Ecosystem management
  - v) Sustainable development
- b) Outline five international conventions that have been signed to protect the environment and biodiversity **(5 marks)**
- c) State the rationale for the concept of sustainable development **(5 marks)**
- d) Outline the various remedial actions to threats of environmental conservation **(5 marks)**
- e) Identify the major causes of resource conflicts and their consequences **(5 marks)**

### **QUESTION TWO**

Discuss how development activities in Kibabii University and the expansion of Bungoma town have contributed to environmental degradation **(20 marks)**

### **QUESTION THREE**

Identify and discuss the major causes of desertification in Kenya **(20 marks)**

### **QUESTION FOUR**

Discuss the principles of natural resource management **(20 marks)**

### **QUESTION FIVE**

Discuss environmental problems associated with industrial development **(20 marks)**