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**University Examinations 2023/2024**

**SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF SCIENCE IN BIOCHEMISTRY**

**SBT 3100: ENVIRONMENTAL SCIENCE**

**DATE: DECEMBER 2023**

**TIME: 2 HOURS**

**INSTRUCTIONS:** *Answer question **one** and any other **two** questions*

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**QUESTION ONE (30 MARKS)**

- a) Elaborate on the social construct dimensions of the environment (3 marks)
- b) Categorize the functions of the natural environment (3 marks)
- c) Distinguish between primary and secondary succession (3 marks)
- d) Sketch a typical ecological pyramid (3 marks)
- e) Describe three characteristics of the lithosphere (3 marks)
- f) Explain any three major compartments forming part of the carbon cycle (3 marks)
- g) Explain the process of eutrophication (3 marks)
- h) Classify non-renewable resources (3 marks)
- i) Recommend briefly how human-wildlife conflict can be tackled or mitigated (3 marks)



**MUST is ISO 9001:2015 and**



**ISO/IEC 27001:2013 CERTIFIED**

- j) State the assumptions associated with common property resources popularly known as ‘tragedy of commons’ (3 marks)

**QUESTION TWO (20 MARKS)**

Discuss environmental laws in Kenya (20 marks)

**QUESTION THREE (20 MARKS)**

Write an essay on El Nino and La Nina weather phenomena (20 marks)

**QUESTION FOUR (20 MARKS)**

Describe deleterious effects of pesticides use on human and environmental health (20 marks)



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