

NATIONAL UNIVERSITY OF LESOTHO

BSc. SUPPLEMENTARY EXAMINATION

ES 3301: CONTEMPORARY ENVIRONMENTAL ISSUES

AUGUST 2023

MARKS: 100

DURATION: 3 HOURS

Instructions:

- Answer any **four (4)** questions.
 - Where applicable illustrate your answer with diagrams.
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Question 1

- a. Explain the anthropogenic causes and effects of global warming. (10)
- b. How does Lesotho benefit from ratifying the Framework Convention on Climate Change and its protocol? (15)

Question 2

- a. What is the Montreal Protocol? What global problem was it designed to address? Has it succeeded? (15)
- b. Explain the objective of Kigali amendment and the targets set to meet the objectives. (10)

Question 3

- a. Briefly explain the importance of biological diversity and why it is worthy of protection. (15)
- b. How does the Nagoya Protocol facilitate effective implementation of the objectives of the Convention on Biological Diversity. (10)

Question 4

- a. Explain why some chemicals were banned under the Stockholm Convention on Persistent Organic Pollutant. (10)
- b. Working for the Department of Agriculture Research as an Environmental Advisor;
 - I. With reference to one prohibited pesticide, explain why the pesticide can no longer be used, and provide an alternative pesticide that has been proved to have less or no negative impacts on the environment and human health. (10)

- II. Explain how uncontrolled application of the alternative pesticide mentioned above can affect the environment and human health.

(5)

Question 5

- a. Mention a development that is likely to cause air pollution in Lesotho, and the potential effects of such development. (15)
- b. Explain different sources of water pollution and the measures that can be taken to control these sources. (10)

Question 6

- a. What are the anthropogenic causes and effects of Land Degradation. (15)
- b. Explain United Nations Convention to Combat Desertification objectives and its targets. (10)