

The National University of Lesotho  
BSc Environmental Science Examination  
ES 3301: Contemporary Environmental Issues

January 2024

Duration: 3 hours

Marks: 100

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**Instructions:**

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

- a) Discuss why air pollution is a global concern. (10)
- b) How is air pollution linked to atmospheric deposition? (15)
- (25)**

Question 2

- a) What is the purpose of air quality standards (ISO 8573)? (5)
- b) Discuss the formation of acid rain and the effects it has on the environment and lives. (20)
- (25)**

Question 3

- a. Discuss the Montreal protocol and its effectiveness to achieving its purposes. (20)
- b. Explain why Montreal protocol was amended. (5)
- (25)**

Question 4

- a) Differentiate between climate change adaptation and mitigation (4)
- b) Discuss how agriculture sector in Lesotho is affected by climate change and mention some adaptation strategies (20)
- c) What was the main agreement reached at COP 21/Paris Agreement? (1)
- (25)**

Question 5

- a) What is the role of UNCCD in land rehabilitation (10)
  - b) Discuss Ramsar convention and its effectiveness in Lesotho (15)
- (25)**

Question 6

- a) Discuss water related disasters with examples pertinent to Lesotho (10)
  - b) Define circular economy and mention any 2 principles (5)
  - c) Mention and explain different sources of water pollution and the measures that can be taken to control these sources. (10)
- (25)**