

NATIONAL UNIVERSITY OF LESOTHO

BSc ENVIRONMENTAL HEALTH

SEMESTER B SUPPLEMENTARY EXAMINATIONS

EHS2305: GLOBAL WARMING AND CLIMATE CHANGE

AUGUST 2023

Total marks: 100

Time: 3 hours

Instructions to candidates

1. Answer **ALL** the questions in the paper
2. Where a question is divided into parts, the marks for each part are shown in brackets.
3. Each question must be started on a new page.
4. Write the answered question numbers on the cover sheet of the answer script.

QUESTION 1 [20]

Giving one example for each, explain the following terms:

- a) Climate [4]
- b) Weather [4]
- c) Climate variability [4]
- d) Climate change model [4]
- e) Vulnerability [4]

QUESTION 2 [20]

Write short notes on the following concepts:

- a) Sources of methane in the atmosphere [10]
- b) Methane sinks [10]

QUESTION 3 [24]

a) Using an example, briefly explain how the following can be affected by climate change:

- i. Water resources; [6]
 - ii. Patterns of human diseases. [6]
 - iii. Coastal areas [6]
- b) Explain the role played by greenhouse gases in climate change [6]

QUESTION 4 [26]

Suppose you have been identified to deliver a presentation in a climate change conference hosted in your country. Explain the following through your presentation:

- a) Global evidence that climate change is occurring [6]
- b) Communities that are vulnerable to climate change [10]
- c) The role of the EHP in climate change management [10]

QUESTION 5 [10]

Discuss international and local policy and legislation that Lesotho can align to in order to adapt and mitigate climate change. [10]

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