

NATIONAL UNIVERSITY OF LESOTHO

BSc ENVIRONMENTAL HEALTH

SEMESTER B SUPPLEMENTARY EXAMINATIONS

EHS2300: INTRODUCTION TO ENVIRONMENTAL HEALTH

August 2023

Total marks: 100

Time: 3hours

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 an example for each case, explain the following terms:

- a) Risk [4]
- b) Environment; [4]
- c) Health; [4]
- d) Hazard. [4]
- e) Toxin [4]

QUESTION 2 [20]

- a) Define the term phrase 'determinant of health' as used in Introduction to Environmental Health. [2]
- b) Briefly explain how the following can affect human health:
 - i. Water quality; [6]
 - ii. Physical hazards; [6]
 - iii. Housing. [6]

QUESTION 3 [20]

"All substances are poisons; there are none which is not a poison. The right dose differentiates a poison and a remedy."(Paracelsus, 1567)

- a) Define the term dose. [2]
- b) Debate the statement in 3(a) above. [10]
- c) Write brief notes on any 2 toxins that a person can be exposed to in the home, clarifying a source and outcome for each exposure. [8]

QUESTION 4 [20]

- a) Discuss any 3 ethical principles that an Environmental Health Practitioner is bound to abide by in practice. [12]
- b) Giving examples outline any 2 biological hazards that can be found in the home environment and their sources. [8]

QUESTION 5 [20]

- a) Suppose you have been employed to work in the NUL environmental analysis laboratory where you analyse environmental media for biological and chemical hazards. Using the hierarchy of controls, describe the measures that you would apply to mitigate the risks associated with working with hazardous chemicals. [20]

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