

THE NATIONAL UNIVERSITY OF LESOTHO
BSc. ENVIRONMENTAL HEALTH
SUPPLEMENTARY EXAMINATIONS- 2023

ENVIRONMENTAL TOXICOLOGY (EHS3207)

DURATION: 3 HRS

MARKS: 100

INSTRUCTIONS:

Answer ALL questions

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QUESTION 1

Fill in the table below

[3*5]

Heavy Metal	Source	Effect on Human Health	Effect on the Environment
i) Mercury			
ii) Lead			
iii) Arsenic			
iv) Cadmium			
v) Selenium			

QUESTION 2

- a) Differentiate between mutagen and teratogen as used in Environmental Toxicology. [6]
- b) What is Threshold level? [1]
- c) Discuss the ADME process using a toxicant of your choice [8]
- d) Explain the fate of toxicants in the environment [5]

e) Discuss the process of carcinogenesis [10]

QUESTION 3

Discuss the adverse environmental health effects associated with the following: [2*5]

- a) Chlorofluorocarbons (CFSs)
- b) Organochlorine Pesticides

QUESTION 4

Giving the name of specific toxicant and the disease it caused, outline the contribution of the following to the field of Environmental Toxicology. [2*10]

- a) The Chernobyl Disaster
- b) Minamata Bay

QUESTION 5

International summits, conferences and other gatherings have led to the development of international protocols, treaties, and conventions on key environmental issues. Explain the specific Environmental Health issues addressed by any five Multilateral Environmental Agreements (MEAs). [25]