

**NATIONAL UNIVERSITY OF LESOTHO - FACULTY OF AGRICULTURE
DEPARTMENT OF SOIL SCIENCE & RESOURCE CONSERVATION**

AGR320 - ENVIRONMENTAL AWARENESS

Final Examination paper

May, 2019

Total Marks: 100

3hours

Instructions:

This paper contains four (4) questions

All questions carry equal marks (25 marks)

Answer All the four (4) QUESTIONS

Question 1 (25 marks)

- a) Describe the following environmental issues (5 marks each)
- i. Water pollution
 - ii. Desertification
 - iii. Natural disaster
- b) Classify the products below into biodegradable and non-biodegradable products. (10)
- i. Garden waste
 - ii. Tin cans
 - iii. Plastic bottle
 - iv. Hydrocarbons (oil)
 - v. PCBs
 - vi. Dioxins Pharmaceutical substances
 - vii. Radionuclides
 - viii. Wood
 - ix. Metals elements such as lead, arsenic
 - x. BPA (Bisphenol A) in food containers

Question 2 (25 Marks)

- a) List any five (5) threats of biodiversity in Lesotho. (5)
- b) Describe any five (5) measures to control biodiversity loss in Lesotho (20)

Question 3 (25 marks)

- a) What are green-house gases? (6)
- b) What are the two (2) major sources of green-house gases in Lesotho? (4)
- c) Mention three (3) impacts of climate change on agriculture and food security in Lesotho and provide two (2) adaptation strategies for each impact. (15)

Question 4 (25)

- a) Provide the full names of the following United Nations conventions that address environmental issues (In full and not only the Acronyms). (6)
 - i. Biodiversity
 - ii. Climate change
 - iii. Land degradation

- b) Why is sustainable development important to the environment? (9)

- c) What is the difference between Agenda 2030 and Agenda 2063 (4)

- d) Mention any three (3) sustainable development goals that are related to agriculture? (6)