

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

AGR320 - ENVIRONMENTAL AWARENESS

Final Examination paper

May, 2015

Total Marks: 100

3hours

Instructions:

This paper contains five (5) questions

All questions carry equal marks (25 marks)

Answer FOUR (4) QUESTIONS ONLY

Question 1 (25)

- a) Describe the effects of the following environmental degradation processes (20)
- i. Eutrophication
 - ii. Persistent pollutants
 - iii. Acidification
 - iv. Greenhouse gases
- b) Differentiate between Point source pollution and Non-point source pollution (5)

Question 2 (25 Marks)

Describe any five (5) socio-economic environmental issues relevant to Lesotho and how do they contribute to environment degradation.

Question 3 (25 marks)

- a) Define climate change (5)
- b) Describe how energy demand and supply contribute to climate change (20)

Question 4 (25 marks)

- a) Define biodiversity (5)
- b) What is the importance of biodiversity in the environment? (5)
- c) Discuss how each of the following agro-systems affects biodiversity and ecosystem sustainability (15)
- i. Intensive farming using agro-chemicals
 - ii. Beef production
 - iii. Conservation agriculture

Question 5 (25 marks)

Lesotho Environmental Act, 2008, identifies projects and activities in which environmental impact assessment is required. Identify the possible impacts from any five (5) activities and explain how the impacts could be avoided (mitigation measures).