



FACULTY OF LIFE SCIENCES
DEPARTMENT OF ANIMAL SCIENCE

BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

Agriculture, the Environment and Climate Change (LAS 4113)

SEMESTER 1 EXAMINATION

February 2022

Time Allowed: 3 hours

Special Requirements: None

Examiner's Name: L. Sebele

Instructions to Candidates:

1. The paper consists of six questions, answer **ALL** questions in **Section A** and **ANY TWO** in **Section B**.
2. Marks for each question are shown in brackets. Where a question has subdivisions, the marks for each subdivision are given.
3. Illustrate your answer, where applicable, with large clearly labelled diagrams.

MARK ALLOCATION

QUESTION	MARKS
SECTION A	60
SECTION B	40
TOTAL ATTAINABLE MARKS	100

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SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION 1

- a) Outline the effects of global warming on the environment. [10]
- b) Describe ways in which government can assist communities to cope with climate change. [10]

QUESTION 2

- a) Explain why the Convention of Biological Diversity (CBD) is important for both conservation and agriculture. [10]
- b) Discuss the role of agriculture in increasing the effects of as well as its role in addressing climate change. [10]

QUESTION 3

- a) Describe coping strategies by farmers practicing cropping in semi-arid areas. [10]
- b) Describe how the society can reduce food-related climate pollution and improve health. [10]

SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION 4

Agriculture has positive effects on the environment. Support this statement. [20]

QUESTION 5

Explain in detail climate change adaptation solutions which exist for livestock production. [20]

QUESTION 6

Sustainable natural resource management is important to agricultural development. Explain. [20]

QUESTION 7

Describe the Cartagena protocol, clearly stating its concerns. [20]

END OF EXAMINATION