

GWANDA STATE UNIVERSITY



FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE

DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH

BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

NATURAL RESOURCES MANAGEMENT NAP 2201

SECOND SEMESTER

FINAL EXAMINATION

April 2025

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: Dr. A.S. Hlatshwayo

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

This paper consists of three printed pages including this one

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

Question 1

- i) What is the focus of Natural Resources Management? [2 marks]
- ii) Which two natural resources should be managed? [2 marks]
- iii) Name two natural resources classified under each of the following:
 - (a) Renewable natural resources? [2 marks]
 - (b) Non-renewable natural resources? [2 marks]
- iv) How are the approaches of Natural Resources Management categorized? [2 marks]
- v) Which components of an ecosystem include living things? [2 marks]
- vi) What is the collective term for soil, moisture, carbon dioxide, organic compounds and elevation grouped together? [2 marks]
- vii) Define ecosystem. [2 marks]
- viii) Which two parameters are used by ecologists to describe the response of an ecosystem to disturbance? [2 marks]
- ix) What is the difference between wind energy and fossil fuels in Natural Resources Management? [2 marks]

Question 2

- (i) What is the difference between a community and an ecosystem? [5 marks]
- (ii) What is found in a community? [2 marks]
- (iii) What does depletion mean in Natural Resources Management? [4 marks]
- (iv) Define Heritage Management. [4 marks]
- (v) Which five natural resources are affected by depletion? [5 marks]

Question 3

- (a) Which four natural resources exist without human intervention? [4 marks]
- (b) What is the importance of biodiversity in ecosystems? [3 marks]
- (c) Which three biomes are terrestrial? [3 marks]
- (d) How does energy and matter travel through ecosystems? [5 marks]
- (e) (i) What is equilibrium in an ecosystem? [3 marks]
 - (ii) How is an ecosystem knocked out of equilibrium? [2 marks]

SECTION B. ANSWER ANY TWO QUESTIONS IN THIS SECTION

Question 4

- (a) What is the significance of the key assumptions of Community-based natural resources management? **[5 marks]**
- (b) Which aspects are brought together by natural resources management? **[5 marks]**
- (c) Which stages are involved in stakeholder analysis? **[5 marks]**
- (d) Describe how higher biodiversity benefits an ecosystem? **[5 marks]**

Question 5

- (a) Describe the methods used in management of biodiversity. **[10 marks]**
- (b) Describe how ownership regimes function. **[10 marks]**

Question 6

Describe how depletion of natural resources can be prevented **[20 marks]**

END OF QUESTION PAPER

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