

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 LAS 2202

SECOND SEMESTER FINAL EXAMINATION

June 2024

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) Why should natural resources be managed? [4 marks]
- ii) What is meant by renewable and non-renewable resources? [4 marks]
- iii) How many types of natural resources are there? [2 marks]
- iv) Give two examples of the natural resources. [2 marks]
- v) Which are the major operational systems in an ecosystem? [4 marks]
- vi) How does an ecosystem maintain and regulate itself? [4 marks]

Question 2

- (i) Explain what happens to the biotic communities that make up an ecosystem. [5 marks]
- (ii) What is homeostasis? [3 mark]
- (iii) When natural resources are said to be depleted and what is the major cause of depletion? [4 marks]
- (iv) What is cultural resource management? [4 marks]
- (v) Which natural resources can be depleted? [4 marks]

Question 3

- a. Name the resources that happen without human activities. [5 marks]
- b. What is the other name for cultural resource management and what does it entail? [2 marks]
- c. How do the major mechanisms enable an ecosystem to maintain its overall stability? [3 marks]
- d. Write about traditional seed banks and how they are maintained. [5 marks]
- e. Give five examples of traditional food stuffs. [5 marks]

SECTION B. ANSWER ANY TWO QUESTIONS IN THIS SECTION

Question 4

Discuss the role of indigenous knowledge systems (IKS) in natural resource management and how does it work. [20

marks]

Question 5

Explain why do natural resources degrade? Write your answer giving examples [20

marks]

Question 6

Describe how can degradation of natural resources be prevented? [20

marks]

END OF QUESTION PAPER

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