

GWANDA STATE UNIVERSITY



FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE
DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH
BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL PRODUCTION AND
HEALTH
PASTURE AND FORAGE AGRONOMY NAP 2202
SECOND SEMESTER
FINAL EXAMINATION PAPER
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) Which other names are Temperate, Tropical and subtropical and Chloricoid grasses known by? [3 marks]
- ii) Which four grass species are Panicoide? [4 marks]
- iii) What are the common names of *Pennisetum clandestinum*, *Cynodon nlemuensis* and *Panicum maximum*? [3 marks]
- iv) What is the function of primary roots on a seedling? [2 marks]
- v) Which are the floral organs of a grass? [2 marks]
- vi) State the types of inflorescence of grasses. [3 marks]
- vii) Describe the growth habits of any two grasses. [3 marks]

Question 2

- (i) Which are the commonly cultivated tribes of legume forages? [3 marks]
- (ii) Describe the two distinct groups of woody plants in savannas. [5 marks]
- (iii) Explain the positive grass-tree interactions. [4 marks]
- (iv) What is the disadvantage of using common names of plant species? [3 marks]
- (v) Describe the response of grass to defoliation. [5 marks]

Question 3

- (i) Describe the grazing/browsing resistance theory of plants. [5 marks]
- (ii) State five reasons for conserving forages. [5 marks]
- (iii) What is hay? [3 marks]
- (iv) Which four forage grasses are suitable for making hay? [4 marks]
- (v) How is good hay prepared? [3 marks]

SECTION B. ANSWER ANY TWO QUESTIONS IN THIS SECTION

Question 4

Describe how plants cope with herbivory. [20 marks]

Question 5

Discuss the advantage of rotational grazing. [20 marks]

Question 6

Describe the objectives of using fire in grazing management systems. [20 marks]

END OF QUESTION PAPER

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