

GWANDA STATE UNIVERSITY



FACULTY OF LIFE SCIENCES

DEPARTMENT OF ANIMAL SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

Pasture and Rangeland Management

LAS 2211

Second Semester Final main Examination Paper

June 2019

This examination paper consists of 3 pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: Ms L. Sebele

INSTRUCTIONS

1. Answer **all** questions in Section A
2. Answer **only two** questions in Section B

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. Distinguish among the three growth habits of grasses [6]
- b. Why is it important to conserve forage? [4]
- c. List the major woody vegetation types in Zimbabwe and give one dominant tree species occurring in each one. [10]

Question 2

- a. What factors would you consider in selecting a new grass or legume, or in replacing an older one with improved cultivars of the same species? [5]
- b. Describe how you would establish and manage pastures of a named grass or legume. [15]

Question 3

- a. Distinguish between the economic carrying capacity and the ecological carrying capacity. [10]
- b. Describe the use of fire in rangeland management. [10]

SECTION B: ANSWER ONLY TWO QUESTIONS

Question 4

Outline the procedure for carrying out a veld survey and the determination of veld condition. [20]

Question 5

- a. How are enclosures used in restoration and what are their advantages? [10]
- b. How does grass respond to defoliation? [10]

Question 6

- a. What is silage? Describe the steps in making it. [10]
- b. Describe the health hazards associated with forage conservation. [10]

Question 7

- a. Discuss the grazing resistance theory. [20]

END OF EXAMINATION