



FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE  
DEPARTMENT OF ANIMAL SCIENCE

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BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

PASTURE AND FORAGE AGRONOMY (LAS 2203)

SEMESTER 2 EXAMINATION

JUNE 2023

**Time Allowed:** 3 hours  
**Special Requirements:** None  
**Examiner's Name:** T. GUMBO

***Instructions to Candidates:***

1. The paper consists of seven 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.

MARK ALLOCATION

QUESTION	MARKS
SECTION A	60
SECTION B	40
<b>TOTAL ATTAINABLE MARKS</b>	<b>100</b>

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**SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION**

**Question 1**

As a livestock specialist, use examples where appropriate to define the following terms;

- a) pasture [4]
- b) agronomic practices [4]
- c) overstocking [3]
- d) scarification [3]
- e) overstocking [3]
- f) agroecology [3]

**Question 2**

Bana grass is important in pasture production. As an extension officer in Gwanda District, what will you tell a group of farmers about its: scientific name, agronomic practices and management? [20]

**Question 3**

A group of livestock farmers in Matabeleland South need assistance on fodder crop production. As an animal scientist recommend **two** legume fodder crops which they can cultivate. In your recommendation of the fodder crops, for each crop write about the following; common name and scientific name, establishment and agronomic practices. [20]

**SECTION B. ANSWER ANY TWO QUESTIONS IN THIS SECTION**

**Question 4**

Discuss the factors which affect the nutritive attributes of plants in Zimbabwe. [20]

**Question 5**

- a) Describe how you would establish and manage one named forage tree, in particular a legume tree. [10]
- b) Describe the growth habits of legumes. [10]

**Question 6**

- a) Using examples, explain why it is important for a livestock farmer to venture into pasture/forage production? [15]
- b) Discuss the importance of rotational grazing [5]

**Question 7**

With the aid of examples discuss the following:

i. Silage making

[5]

ii. Integrated pasture and fodder production

[5]

iii. Urea treatment of stover

[5]

iv. Ley pastures

[5]

**END OF EXAMINATION!!!!**