



**PAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES
SCHOOL OF AGRICULTURE AND NATURAL RESOURCES SCIENCES
DEPARTMENT OF AGRICULTURAL SCIENCE AND AGRIBUSINESS**

QUALIFICATIONS : BACHELOR OF SCIENCE IN AGRICULTURE	
QUALIFICATIONS CODE: 07BAGA	LEVEL: 7
COURSE CODE: SLH611S	COURSE NAME: SUSTAINABLE LARGE RUMINANT HUSBANDRY
DATE: JUNE 2023	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER:	MS. LIISA INDILENI KANDJIBI
MODERATOR:	MRS. LUCIA TUYENI-KELAO KAFIDI

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer all the questions.2. Write neatly and clearly.3. Mark all answers clearly with their respective question numbers4. All written work MUST be done in blue or black ink.5. No books, notes and other additional aids are allowed

PERMISSIBLE MATERIALS

1. Calculator
2. Examination paper
3. Examination script

**THIS QUESTION PAPER CONSISTS OF 3 PAGES
(Including This Front Page)**

Question 1

1.1 How many permanent incisors will be present at the following ages:

- 1. Age two (1)
- 2. Age three (1)
- 3. Age four (1)
- 4. Age five (1)

1.2 How much litres of water estimated to be found in different compartment stomach of the cattle? (4)
[8]

Question 2

What are the characteristics of dairy breeds? [5]

Question 3

- 3.1 Explain the body condition score 7 (BCS:7) for beef cows. (5)
- 3.2 Differentiate between Bos-taurus and Bos-indicus cattle breed. Give 4 examples of each. (12)
[17]

Question 4

- 4.1 What is the general recommended ratio for yearling bull: cow? (1)
- 4.2 Name the different types of abnormal sperm cells and penis impairments. (9)
[10]

Question 5

What will the technician be careful of when inseminating the cow? [7]

Question 6

Name two organisms that cause mastitis. [2]

Question 7

Explain how will a farmer assist a cow with dystocia using the following methods.

- 7.1 Chain or strong rope (7)
- 7.2 Puller (8)
[15]

Question 8

Give any two functions of the following nutrients:

- 8.1 Fiber (2)
- 8.2 Salt (NaCl) (2)
- 8.3 Vitamin B12 (2)
[6]

Question 9

List 6 important hormones that are produced by anterior pituitary and give their functions. [12]

Question 10

Why it is important to identify cattle?

[8]

Question 11

Name five poisonous plants that affect the gastrointestinal tract of ruminant.

[5]

Question 12

12.1 What are the functions of the abomasum in digestion?

(2)

12.2 What is the estimated amount of saliva a cow produces per day?

(3)

[5]

Total:

[100]