ΠΑΜΙΒΙΑ UΠΙVERSITY
OF SCIEΠCE AΠD TECHΠOLOGY

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

Department of Agriculture and Natural Resources Sciences

QUALIFICATIONS : BACHELOR OF SCIENCE IN AGRICULTURE	
QUALIFICATIONS CODE: 07BAGA	**LEVEL:** NQF LEVEL 6
COURSE CODE: SLH611S	**COURSE NAME:** SUSTAINABLE LARGE RUMINANT HUSBANDRY
DATE: JULY 2022	**SESSION:** JULY
DURATION: 3 HOURS	**MARKS:** 100

SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER:	DR. HIMA RANTILLA AMWELE
MODERATOR:	MRS. LUCIA TUYENI-KELAO KAFIDI

INSTRUCTIONS
1. **Answer all questions**
2. **Type clearly and neatly**
3. **Number the answers clearly**
4. **Report all your answers to the correct significant figures**

PERMISSIBLE MATERIALS
1. Calculator
2. Examination paper
3. Examination script

THIS QUESTION PAPER CONSISTS OF 2 PAGES *(Excluding this front page)*

Question 1
Define the following terms:
- Ketones (1)
- Ataxia (1)
- Metabolism (2)
- Water retention (1)
- Edema (1)
- Oxidation (2)

[8]

Question 2
2.1 What are the parts of the ruminant digestive system? (10)
2.2 What is the function of the rumen and reticulorumen? (4)

[14]

Question 3
Explain the following terms of dairy management system. [8]
- Steaming up period
- Inter-calving period
- Lactation period
- Service period

Question 4
Explain the following testicle consistency scores 1, 2, 3, 4 and 5. [10]

Question 5
What is the Bos-taurus cattle breed and give 2 examples? [6]

Question 6
What will the technician be careful of when inseminating the cow? [8]

Question 7
What are the following terms?
- Cytokines (2)
- Lymphokines (2)
- Interleukins (2)
- Interferon (2)

[8]

Question 8
Explain the functions of Natural killer cells (NK). [8]

Question 9
Which area of the ear should the tattoo be applied and why? [4]

1

Question 10
What are the role hormones and minerals play in control of estrus cycle? [11]

Question 11
What are structure and function of the nerve systems? [11]

Question 12
Give 2 deficiencies of the following nutrients? [4]
  ➢ Folic Acid
  ➢ Pantothenic acid B3

Total: **[100]**