

## 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:	JULY 2023	PAPER: THEORY			
DURATION:	3 HOURS	MARKS: 100			

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

## **INSTRUCTIONS**

- 1. Answer all the questions.
- 2. Write neatly and clearly.
- 3. Mark all answers clearly with their respective question numbers
- 4. 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 Apart from the 4 – compartment stomachs, what are the other parts of ruminant d	igestive
system?	(8)
1.2 How is cattle age estimated?	(4)
1.3 Name four elements contained in the saliva.	(4)
	[16]
Question 2	[=0]
2.1 What are the characteristics of beef breeds?	(4)
2.2 Give four indigenous breeds of Africa.	(4)
2.2 dive four margenous breeds of Africa.	[8]
Question 3	[O]
3.1 Explain the body condition score 3 (BCS:3) for dairy cows.	(3)
3.2 When you are scoring the body condition of dairy cows, which parts do you need to	
at?	(7)
	[10]
	[20]
Question 4	
4.1 Testosterone has several major functions, give any four functions of the testosteron	
	(4)
4.2 Explain the functional anatomy of a bull?	(4)
	[8]
Question 5	
What are the procedures to follow when introducing an orphan calf to nursing cows?	[10]
Question 6	
6.1 Explain how to clean the teats and udder before milking.	(4)
6.2 Name three (3) different types of mastitis.	(3)
	[7]
Question 7	
7.1 How does it feel like when you palpate the uterus horns of a cow that is 45 days pre	agnant?
7.1 How does it feel like when you palpate the dierus horns of a cow that is 45 days pro	(2)
7.2 What are the four conditions that could cause dystocia.	(4)
7.2 What are the four conditions that could cause dystocia.	[6]
	[o]
Question 8	
8.1 Define the following terms:	
8.1Ketosis	(1)
8.2 Ketones	(1)
8.3 Water retention	(1)
8.4 Epithelial	(1)
8.5 Tetany	(1)
	[5]

Question 9  Give two functions of the following nutrients:	
Give two functions of the following nutrients: 8.1 lodine	(2)
8.2 Copper	(2)
	[4]
Question 10	
Explain how to collect semen or sperm with the artificial vagina.	[5]
Question 11	
List and explain the four stages of the estrous cycle.	[8]
Question 12	
Name three major hormones that are produced by thyroid gland.	[3]
Question 13	
13.1 Which type of dehorning methods is designed for calves younger than one to two	weeks
old?	(1)
13.2 List other four types of dehorning methods.	(4)
Question 14	[5]
14.1 What are the three parts of neuron?	(3)
14.2 Differentiate between central nervous system and peripheral nervous system.	(2)
Total [100]	[5] ]