



**NAMIBIA 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**

<b>QUALIFICATIONS:</b> BACHELOR OF SCIENCE IN AGRICULTURE	
<b>QUALIFICATIONS CODE:</b> 07BAGA	<b>LEVEL:</b> NQF LEVEL 7
<b>COURSE CODE:</b> SLH611S	<b>COURSE NAME:</b> SUSTAINABLE LARGE RUMINANT HUSBANDRY
<b>DATE:</b> JUNE 2024	<b>SESSION:</b> JUNE
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

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

<b>INSTRUCTIONS</b>
<ol style="list-style-type: none"><li>1. Answer all the questions</li><li>2. Please write legibly and clearly</li><li>3. Clearly indicate your answers alongside their corresponding question numbers</li><li>4. Use blue or black ink for all written responses</li><li>5. No books, notes and other additional aids are allowed</li></ol>

**PERMISSIBLE MATERIALS**

1. Calculator
2. Examination paper
3. Examination script

**THIS QUESTION PAPER CONSISTS OF 1 PAGE  
(Excluding This Front Page)**

**Question 1**

- 1.1 List five characteristics of dairy breeds. [5]  
1.2 Describe the ruminant digestive system. [7]  
1.3 List the four compartments of a cow's stomach and give one function of each. [8]  
**[20]**

**Question 2**

- 2.1 Describe the body condition score 8 for beef cattle. [5]  
2.2 List 6 abnormalities of sperm cells and 3 Impairments of the penis. [9]  
2.3 Describe the procedures to follow when introducing an orphan calf to nursing cows. [10]  
**[24]**

**Question 3**

- 3.1 What are the factors affecting calving difficulty? [4]  
3.2 Differentiate between staphylococcus aureus and streptococcus agalactiae. [4]  
3.3 Explain the process of hand milking. [10]  
**[18]**

**Question 4**

- 4.1 Describe the process of assisting cows with dystocia using a chain or strong rope. [8]  
4.2 List 5 endocrine system glands and give one function for each. [10]  
4.3 What are the main structures and functions of the nervous system? [10]  
**[28]**

**Question 5**

- 5.1 Explain the functions of natural killer cells. [4]  
5.2 Name three organs of the immune system and give one function for each. [6]  
**[10]**

**TOTAL [100]**