



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

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

<b>QUALIFICATIONS:</b> BACHELOR OF SCIENCE IN AGRICULTURE	
<b>QUALIFICATIONS CODE:</b> 07BAGA	<b>LEVEL:</b> 7
<b>COURSE CODE:</b> SRH611S	<b>COURSE NAME:</b> SUSTAINABLE SMALL RUMINANT HUSBANRY
<b>DATE:</b> JULY 2024	<b>SESSION:</b> THEORY
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

<b>SECOND OPPORTUNITY EXAMINATION MEMORANDUM</b>	
<b>EXAMINER:</b>	MRS. LUCIA TUYENI-KELAO KAFIDI
<b>MODERATOR:</b>	DR. HILMA R. AMWELE

<b>INSTRUCTIONS</b>
<ol style="list-style-type: none"><li>1. Answer all the questions.</li><li>2. Write neatly and clearly.</li><li>3. Mark all answers clearly with their respective question numbers.</li><li>4. All written work <b>MUST</b> be done in blue or black ink.</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 3 PAGES  
(Including This Front Page)**

**QUESTION 1**

1. If bales of fleece wool are marked as follows, what does it mean? Provide all the necessary information.

1.1 BM [2]

1.2 CFF [2]

{4}

**QUESTION 2**

2.1 Define the term animal husbandry. [3]

2.2 What are the basic principles also known as 'five freedoms' for animal welfare? [5]

{8}

**QUESTION 3**

3.1 What are the clinical signs of the rickets illness? [4]

3.2 What are the common diseases that are ought to affect the fertility of the ram. [3]

{7}

**QUESTION 4**

Demonstrates the understanding on how the following crucial farm management issues could be dealt with to comply with FANMeat standards.

4.1 Training [3]

4.3 Pasture and Feed [5]

{8}

**QUESTION 5**

5.1 Describe the Body Condition (BCS) 2 (Two) of the sheep. [8]

5.2 Discuss the history of the Damara sheep of Namibia. [10]

{18}

**QUESTION 6**

6.1 Explain the challenges facing the new farmers in running the farm as a business. [10]

6.2 Explain what the uterus and its functions are thereafter. [6]

{16}

**QUESTION 7**

- 7.1 Assume that some of your sheep were serviced on the 02 July 2022. Calculate the lambing day. Show all steps involved in determining of the lambing day. [6]
- 7.2 It is important to keep good record in any farming system. According to FANMeat standards with regards to record keeping, there are certain forms and documents that must be filled in timely and submitted to the respective recipients. Express your knowledge by naming and explaining these forms. [8]
- {14}**

**QUESTION 8**

Evaluate and analyse the small stock industry in Namibia, regarding the types of marketing.

- 8.1 Abattoir [5]
- 8.2 Auctions [5]
- {10}**

**QUESTION 9**

A farmer mated 350 Does and 335 of these were scanned pregnant. 330 of these Does kid, 990 kids were born alive, and 990 kids were weaned.

Calculate the following reproduction parameters for small ruminant livestock production.

- 9.1 Survival Rate (SR) [3]
- 9.2 Lambing Percentage (LP) [3]
- {6}**

**QUESTION 15**

Calculate the costs of the feed required to feed the ram for two months (December and January) if each feed ingredient costs N\$3.50 per part. A good ration for working rams must be composed of the following feed ingredients per day: [9]

- 2 of parts yellow mealie meal
- 5 of parts oatmeal
- 3 of part wheat bran
- 0.5 of part fishmeal

**{9}**

**TOTAL: 100**