



**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**

QUALIFICATIONS: BACHELOR OF SCIENCE IN AGRICULTURE	
QUALIFICATIONS CODE: 07BAGA	LEVEL: NQF LEVEL 7
COURSE CODE: SRH611S	COURSE NAME: SUSTAINABLE SMALL RUMINANT HUSBANDRY
DATE: JUNE 2025	SESSION: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER:	MRS. LUCIA TUYENI-KELAO KAFIDI
MODERATOR:	PROF. HILMA AMWELE

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 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 MARKING SCHEME CONSISTS OF 3 PAGES
(Including This Front Page)**

QUESTION 1

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

- 1.1 EFF [2]
- 1.2 DDM [2]

QUESTION 2

- 2.1 What does FANMeat stand for? [2]
- 2.2 What does NamLITS stand for? [3]

QUESTION 3

- 3.1 Name five environmental categories that play a vital role in farming, hence, to reduce livestock losses. [5]
- 3.2 Describe the importance of colostrum for the lambs/kids. [4]

QUESTION 4

- 4.1 Differentiate between Carding of wool and Worsted yarn [2]
- 4.2 Explain the features that determine the economic values of the wool. [6]

QUESTION 5

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

- 5.1 Auctions [5]
- 5.2 Abattoir [5]

QUESTION 5

- 5.1 Explain what the oviducts and the importance of it is thereafter. [5]
- 5.2 Explain the roles that thermoregulation plays in livestock reproductive system. [5]

QUESTION 6

- 6.1 Livestock farming can have various impacts on the environment. Demonstrates the understanding on how predators could be dealt with to comply with FAN Meat standards. [5]
- 6.2 Discuss the strategic options to improve small ruminant production. [6]

QUESTION 7

Explain the following strategies that can help the farmer to minimize losses on his farm.

- 7.1 Minimize Environmental Stress [6]
- 7.2 Record Keeping and Data Tracking [4]

QUESTION 8

- 8.1 Express your knowledge and understanding by discussing the main roles and functions of the Meat Board of Namibia. [7]
- 8.2 Discuss the oestrous circle of the small ruminant (goat and sheep). Indicate the timeline per period and the activities that are taking place at a time. [8]

QUESTION 9

- 9.1 Fill in missing information concerning the normal semen parameters in the mature ram and buck. [2]

	Ram	Buck
Morphological normal sperm (%)	1	2

- 9.2 Assume that some of your goats were serviced on the 29 November 2024. Calculate the expected kidding day. Show all steps included in determining of the requested days. [7]

QUESTION 10

A farmer mated 300 Does and 280 of these were scanned pregnant. 270 of these Does kid, 625 kids were born alive, and 622 kids were weaned.

Calculate the following reproduction parameter for small ruminant livestock production. Survival Rate (SR). [3]

QUESTION 11

Calculate the costs of the feed required to feed three (3) rams for a day. Each feed ingredient costs N\$4.50 per part. A good feed ration for working rams must be composed of the following feed ingredients and the amounts per day per ram: [6]

- 2.5 of parts yellow mealie meal
- 3 of part wheat bran
- 1.5 of part fishmeal

TOTAL: 100