



**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: JULY 2025	SESSION: THEORY
DURATION: 3 HOURS	MARKS: 100

SECOND 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 4 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 AAM [2]
- 1.2 DDM [2]

QUESTION 2

- 2.1 What does NWGA stand for? [3]
- 2.1 What are the important price-determining factors when classing the wool. [4]

QUESTION

- 3.1 Explain the important benefit of FAN Meat standard to the livestock producers. [3]
- 3.2 Define the five types of nutrients that are important for livestock and for each type of nutrient provide any two of its sources. [10]

QUESTION 4

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

- 4.1 Water [3]
- 4.3 Pasture and Feed [5]

QUESTION 5

- 5.1 Describe the signs by rams or a buck displaying readiness for mating. [5]
- 5.2 Explain what the testes and the importance of them is thereafter. [7]

QUESTION 6

- 6.1 Name the accessory glands and explain their function in the body thereafter. [6]
- 6.2 Discuss the advantages of Breeding Seasons [5]

QUESTION 7

- 7.1 Distinguish between notifiable diseases and contagious diseases? [4]
- 7.2 Describe bush marketing type in terms of small stock industry in Namibia. [5]

QUESTION 8

- 8.1 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]
- 8.2 Small livestock play an important role in farmers' livelihood because their turnover is faster than that of large stock. A Company approached you, as a consultant, to conduct a feasibility study of the area it wants to establish a Dorper sheep farm. What did you find out? Write a report for both this Company and the Ministry of Environment. [5]

QUESTION 9

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

- 9.1 Improve Animal Health Management [4]
- 9.2 Training and Knowledge [2]

QUESTION 10

- 10.1 Fill in the ratio of ewes per ram or does per buck. [2]

Age of Rams or Bucks	Ratio of Ewes Per Ram or Does Per Buck
Ram lambs and buck kids (approximately 8 to 10 months)	1
Yearlings (approximately 12 to 16 months)	25 to 50 ewes or does per 1 yearling ram or buck
Mature rams and bucks	2

- 10.2 Assume that some of your sheep were serviced on the 02 July 2024. Calculate the lambing day. Show all steps involved in determining of the lambing day. [6]

QUESTION 11

11.1 A doe consumed 2.50kg of Dry Matter (DM) of feed and excreted 0.50kg of DM.
Calculate the digestibility of such feed. [5]

11.2 Mrs. Ndamononghenda is farming with 350 goats on pasture. He realised that pasture is not enough to sustain the animals throughout the year until the next rain season. Hence, he decided to buy some Lucerne hays to supplement his animals. The price of Lucerne hays cost = N\$1550.00/Ton.
Calculate the costs for Lucerne which are required to feed the entire herd for three months (June to August). The goats need 45kg/day of Lucerne for the three months/herd. [4]

TOTAL: 100