



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

Department of Agriculture and Natural Resources Sciences

QUALIFICATIONS : BACHELOR OF SCIENCE IN AGRICULTURE	
QUALIFICATIONS CODE: 07BAGA	LEVEL: NQF LEVEL 6
COURSE CODE: SRH611S	COURSE NAME: SUSTAINABLE SMALL RUMINANT HUSBANDRY
DATE: JULY 2022	SESSION: JULY
	MARKS: 120

SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER:	MRS. LUCIA TUYENI-KELAO KAFIDI
MODERATOR:	DR. HIMA R. AMWELE

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer all questions2. Type clearly and neatly3. Number the answers clearly4. Report all your answers to the correct significant figures

PERMISSIBLE MATERIALS

1. Calculator
2. Examination paper
3. Examination script

THIS QUESTION PAPER CONSISTS OF 3 PAGES (*Excluding this front page*)

QUESTION 1

- 1.1 Explain the important purposes of FANMeat Scheme to the livestock producers. [3]
- 1.2 Livestock farming can have various impacts on the environment. Demonstrates the understanding on how predators could be dealt in order to comply with FANMeat standards. [5]

QUESTION 2

- 2.1 Define the five types of nutrients that are important for livestock and for each type of nutrient provide any two of its sources. [10]
- 2.2 Explain the step by step method of how to make silage. Select a specific plant species as an example. Also indicate how you would determine when it is ready for feeding or baling. [6]

QUESTION 3

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

- 3.1 Auctions [5]
- 3.2 Permit Days [5]

QUESTION 4

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

- 4.1 Water [3]
- 4.2 Facilities and Restricted Areas [3]
- 4.3 Pasture and Feed [5]

QUESTION 5

- 5.1 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 Damara sheep farm. What did you find out? Write a report for both this Company and the Ministry of Environment. [7]
- 5.2 Assume that some of your goats were serviced on the 25 November 2016. Calculate the expected kidding day. Write it in record sheet. [10]

QUESTION 6

Express your knowledge and understanding by discussing the recommended supplements for the following production livestock.

- 6.1 Lactating doe [5]
- 6.2 Lambs [5]

QUESTION 7

- 7.1 Explain the figure below with regard to nutrition requirements in the livestock production processes. [5]
- 7.2 Livestock farmers have a legal and moral responsibility for the welfare of their animals. Validates your comprehension by explaining how animals should be managed according to the rules and regulations of Animal Welfare in terms of marking of animals. [5]

QUESTION 8

Explain what the following reproductive tract organs are and their importance thereafter.

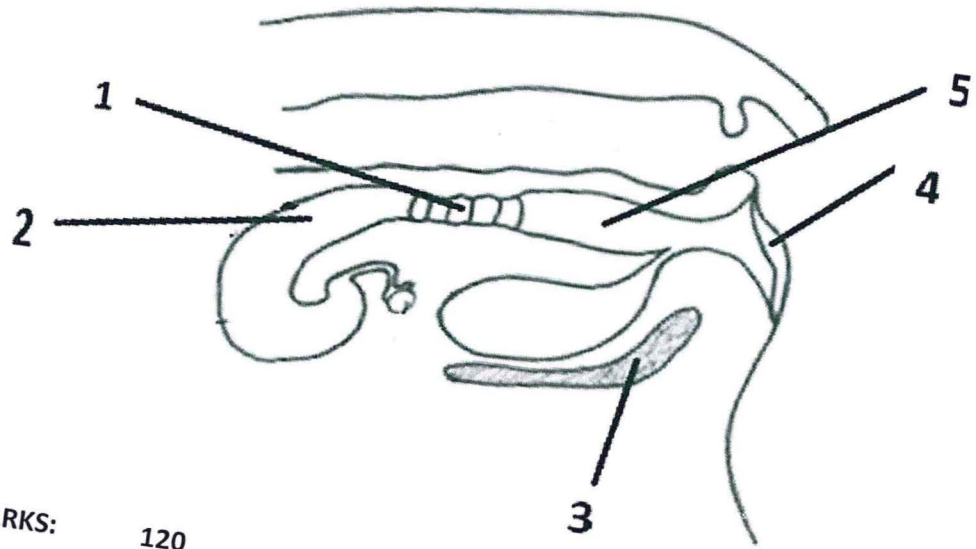
- 8.1 Testes [5]
- 8.2 Scrotum [4]
- 8.3 Cervix [7]
- 8.4 Thermoregulation [5]

QUESTION 9

- 9.1 A producer mated 500 ewes and 485 of these were scanned pregnant. 480 of these ewes lambed, 750 lambs were born alive and 745 lambs were weaned. Calculate the Mortality Rate (MR) of this herd of sheep. [4]
- 9.2 Mr. Ndemupandula is farming with 250 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 hay for supplement, i.e. oats and Lucerne hays. The price for Maize hay costs = N\$1200.00/Ton and of Lucerne hay costs = N\$1550.00/Ton.
Calculate the costs for both hays (maize and Lucerne) which are required to feed the entire herd for three months (June to August). The goats need 35kg/day of oats hay and 20kg/day of Lucerne for those three months/herd. [8]

QUESTION 10
Fill in the missing items:

[5]



TOTAL MARKS: 120