



**PAMIBIA 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: JUNE 2022	SESSION: JUNE
DURATION: 3 HOURS	MARKS: 120

FIRST 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 What does FANMeat stands for? [2]
- 1.2 What is the importance of Cordon fence with regards to livestock production marketing in Namibia? [2]

QUESTION 2

- 2.1 Discuss the advantages of Breeding Seasons in small stock production. [5]
- 2.2 Express your knowledge and understanding by discussing the recommended supplements for the pregnant ewe. [5]

QUESTION 3

Evaluate and analyse the small stock industry in Namibia, regarding the following types of marketing strategies. [10]

- 3.1 Bush markets (5)
- 3.2 Speculators (5)

QUESTION 4

Discuss the estrous circle of the small ruminant (goat and sheep). Indicate the timeline per period and the activities that are taking place at a time. [12]

QUESTION 5

- 5.1 Explain what the oviducts is and the importance of it thereafter. [5]
- 5.2 Describe the importance of Vas Deferens [4]

QUESTION 6

- 6.1 Identify the marketing channel described below and explain some of its pros and cons. [10]
"A system of buying and selling goods to the highest bidder, commonly held in communal farming areas south of the veterinary cordon fence"
- 6.2 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]

QUESTION 7

The “buzz word” these days is Sustainable. Explore and explain in detail what sustainable farming is in relation to small ruminant husbandry in Namibia’s context in terms of the following. [10]

7.1 Environmental health (5)

7.2 Social and economic equity (5)

QUESTION 8

8.1 In addition to good management, selection plays a vital role in the successful livestock production. Demonstrate your understanding by describing what selection is and explain the importance of selection towards productive small stock raising. [10]

8.2 One of the tools of breeding and selection is visual selection. [10]

QUESTION 9

9.1 A farmer mated 550 Does and 545 of these were scanned pregnant. 535 of these Does kidded, 1340 kids were born and 1280 kids were weaned. Calculate the Fecundity of this herd of goats. [4]

9.2 Ms. Fimanekeni is farming with 300 goats on pasture. He realised that the pasture is not enough to sustain the animals throughout the year until the next rain season. Hence, decided to buy some hay for supplementing, i.e. maize and Lucerne hays. The price for Maize hay costs = N\$1000.00/Ton and of Lucerne hay costs = N\$1500.00/Ton.

Calculate the costs for maize hay and Lucerne hay which are required to feed the entire herd for three months (September to November). The goats need 45kg/day of maize hay and 35kg/day of Lucerne for those three months/herd. [8]

QUESTION 10

Assume that some of your sheep were serviced on the 18 March 2022. Calculate the expected lambing day. Show all steps included in determining of the estimated days. [10]

QUESTION 11

Fill in the missing items:

[5]

