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: 7**
COURSE CODE: SRH611S	**COURSE NAME:** SUSTAINABLE SMALL RUMINANT HUSBANRY
DATE: JUNE 2024	**SESSION:** THEORY
DURATION: 3 HOURS	**MARKS:** 100

FIRST OPPORTUNITY EXAMINATION MEMORANDUM	
EXAMINER:	MRS. LUCIA TUYENI-KELAO KAFIDI
MODERATOR:	DR. HILMA R. AMWELE

INSTRUCTIONS
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 QUESTION PAPER 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]
                                                                                  {4}

QUESTION 2

2.1 What does NWGA stand for?   [3]
2.1 What are the important price-determining factors when classing the wool. [4]
                                                                                  {7}

QUESTION 3

Demonstrates the understanding on how the following crucial farm management issues could be dealt with to comply with FANMeat standards.
3.1 Water   [4]
3.2 Facilities and Restricted Areas   [4]
                                                                                  {8}

QUESTION 4

Evaluate and analyse the small stock industry in Namibia, regarding the types of marketing.
4.1 Bush Markets   [5]
4.2 Speculators   [5]
                                                                                  {10}

QUESTION 5

5.1 Distinguish between notifiable diseases and contagious diseases?   [4]

5.2 Name six (5) of these notifiable diseases.   [5]
                                                                                  {9}

QUESTION 6

6.1 What does NamLITS stand for?   [4]

6.2 Express your knowledge and understanding by discussing the main roles and functions of the Meat Board of Namibia.   [8]
                                                                                  {12}

QUESTION 7

7.1   Discuss the general description of the Boer goats.   [8]

7.2   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 Damara sheep farm. What did you find out? Write a report for both this Company and the Ministry of Environment.
                                                                               [7]
                                                                              {15}

QUESTION 8

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

8.2   Assume that some of your sheep were serviced on the 24 April 2024. Calculate the lambing day. Show all steps involved in determining of the lambing day.   [6]
                                                                              {11}

QUESTION 9

A farmer mated 300 Does and 295 of these were scanned pregnant. 295 of these Does kid, 870 kids were born alive, and 850 kids were weaned. Calculate the following reproduction parameters of this herd of goats.

9.1   Fecundity Rate (Fec):   [3]

9.2   Mortality Rate (MR):   [3]
                                                                               {6}

QUESTION 10

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 hay for supplement, i.e. oats and Lucerne hays. The price for oats 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 45kg/day of oats hay and 25kg/day of Lucerne for the three months/herd.   [8]
                                                                               {8}

2

QUESTION 11

Calculate the costs of the feed required to feed three (3) rams for two months (**May and June**) if each feed ingredient costs N$4.00 per part. A good ration for working rams must be composed of the following feed ingredients per day per ram: [10]

2 of parts yellow mealie meal

5 of parts oatmeal

3 of part wheat bran

0.5 of part fishmeal

{10}

TOTAL: 100 Marks