THE NATIONAL UNIVERSITY OF LESOTHO FACULTY OF AGRICULTURE DEPARTMENT OF ANIMAL SCIENCE

ANS4501: SMALL RUMINANT PRODUCTION

FIRST SEMESTER FINAL EXAMINATION

JANUARY 2024 Marks: 100 Time 3 hours

Instruction: Answer All Questions

Question one

The Ministry of Agriculture requested you to prepare a document that is meant to advice and convince dairy cow farmers to leave dairy farming and resort to small stock production: clearly discuss important points to be covered in the document. (10 marks)

Question two

Reproduction is an important component in livestock farming, because it determines the growth and the profitability of the farm: list and discuss any **FIVE** factors affecting reproduction in small stock.

(10 marks)

Question three

List and explain any **FIVE** measures of reproductive performance commonly used in small stock. (10 marks)

Question four

Selection is one of the fundamental steps in genetic improvement in any livestock farming:

- a) Discuss four important sources of information (**selection tools**) that can assist small stock farmers to make well informed selection. (8 marks)
- b) Among the four selection tools which one is the best for selection? (2 marks)
- c) Discuss parameters to consider when selecting breeding ewes. (10 marks)

Question five

Hoof care is one of the fundamental management practices in small stock:

- a) List and discuss three main causes of hoof growth. (6 marks)
- b) Discuss important considerations when trimming hooves. (4 marks)

Question six

Discuss the significance of feeding ewes in the following stages of production:

a) Breeding (5 marks)b) Lactating (5 marks)

Question seven

Discuss the important nutritional facts every farmer needs to be aware of in order to increase productivity (10 marks)

Question eight

Urinary calculi/kidney stones is one of the common nutrition related disorders in small ruminants, clearly discuss this problem with more emphasis on the following:

a)	Causes of the condition	(4 marks)
b)	Which animals are at higher risk?	(2 marks)
c)	Signs and Symptoms	(2 marks)
d)	Control	(2 marks)

Question nine

Internal parasites infestation in small stock is a big challenge among farming communities:

a) Why is it difficult to control internal parasites (2 marks)b) Discus how do parasites cause disease (8 marks)