



2ND SEM. 2004/2005

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UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER

**PROGRAMME: DIPLOMA IN AGRICULTURE
DIPLOMA IN AGRICULTURE EDUCATION
YEAR III**

COURSE CODE: APH 303 ✓

TITLE OF PAPER: SMALL RUMINANT PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY 4 QUESTIONS.

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN
GRANTED BY THE CHIEF INVIGILATOR**

QUESTION 1

- a). What are the signs of estrus in does. (10 marks)
- b). Discuss the five systems of management appropriate to goats. (15 marks)

QUESTION 2

- a). Discuss the importance of sheep and goats in the economies of developing countries. (15 marks)
- b). What are the disadvantages of keeping small ruminants? (10 marks)

QUESTION 3

Explain the importance of adequate supply of energy and proteins for reproduction in small ruminants. (25 marks)

QUESTION 4

Long dry periods can have a disastrous effect on sheep and goat production. Discuss dry season feeding and disease management strategies necessary to maintain sheep and goats through the dry seasons. (25 marks)

QUESTION 5

- a). Discuss a small ruminant disease of your choice under the following headings:
- i). Etiology
 - ii). Diagnosis
 - iii). Treatment
 - iv). Control (20 marks)
- b). List the factors that affect length of the breeding season in sheep and goats. (5 Marks)