



2ND SEM. 2005/2006

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: DIPLOMA IN AGRICULTURE AND
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.

**THIS PAPER MAY NOT BE OPENED UNTIL THE CHIEF
INVIGILATOR HAS GRANTED PERMISSION.**

QUESTION 1

- i. What are the objectives of breeding soundness examination in rams/bucks?

(5 Marks)

- ii. Discuss the following aspects of breeding soundness examination:

- a. Clinical examination
- b. Semen evaluation
- c. Serving capacity

(15 Marks)

- iii. List the measures of reproductive performance in small ruminants.

(5 Marks)

QUESTION 2

What are the factors that limit the productivity of sheep and goats in Swaziland?

Discuss possible solutions.

(25 Marks)

QUESTION 3

Discuss peste de petits ruminants (PPR) under the following headings:

- i. Occurrence and aetiology
- ii. Diagnosis
- iii. Transmission
- iv. Treatment
- v. Control

(25 Marks)

QUESTION 4

- i. Give a detailed account on the importance of adequate nutrition for reproduction in small ruminants
- ii. What are the signs of estrus in does?

(15 marks)

(10 Marks)

QUESTION 5

- i. Briefly, discuss pre-mating and mating management strategies for both male and female small ruminants.
- ii. Write short notes on the following:
- a. Age estimation using dental formula
 - b. Short scrotum technique
 - c. Condition scoring

(10 Marks)

(15 Marks)