



1ST SEM. 2005/2006

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: B. SC. AGRICULTURE YEAR V,
APH OPTION**

COURSE CODE: APH 503

TITLE OF PAPER: SHEEP AND GOAT 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

Write an essay on techniques one can use to induce estrus and increase ovulation rate in ewes and does. How applicable are these techniques within the production systems of Swaziland? **(25 Marks)**

QUESTION 2

- i. Discuss the concept of inbreeding as a breeding tool in genetic improvement. **(15 Marks)**
- ii. Explain the advantages and disadvantages of upgrading Swaziland's indigenous small ruminant breeds through crossbreeding with exotic improved breeds. **(10 Marks)**

QUESTION 3

- i. Explain the importance of adequate intake of energy and protein for reproduction **(10 Marks)**
- ii. Give an account of strategies required to boost small ruminant production in Swaziland. **(15 Marks)**

QUESTION 4

- i. Discuss the measures of reproductive performance in a flock of ewes. **(15 Marks)**
- ii. What are the potential uses of artificial insemination in sheep and goats? **(10 Marks)**

QUESTION 5

Discuss the problems associated with goat keeping. What is the value of goats in the rural communities of Swaziland? **(25 Marks)**