

**UNIVERSITY OF SWAZILAND
FACULTY OF AGRICULTURE**

DEPARTMENT: ANIMAL PRODUCTION AND HEALTH

Final Examination (Semester I, 2004/5)

**B. Sc. Agriculture and B. Sc. Agriculture Education 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

a). What are the benefits of oestrus synchronization in ewes and does?

(15 marks)

b). Briefly describe two methods that can be used in oestrus synchronization in sheep and goats.

(10 marks)

QUESTION 2

Describe how you would feed a doe throughout its productive life to ensure maximum productivity.

(25 marks)

QUESTION 3

a). What are the characteristics and utilities of the following small ruminant breeds:

i) Blackhead Persian

ii) Saanen

(10 marks)

b). Identify and discuss three objectives of genetic improvement in sheep and goats.

(15 marks)

QUESTION 4

a). Discuss how nutrition affects productivity of sheep and goats. **(10 marks)**

b). Discuss the concept of inbreeding as a breeding tool in genetic improvement.

(15 marks)

QUESTION 5

What are the factors you would consider when choosing a ram for breeding purposes.

(25 marks)