



**2008/2009**

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**UNIVERSITY OF SWAZILAND**  
**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME:** **BACHELOR OF SCIENCE IN  
AGRICULTURAL ECONOMICS AND  
AGRIBUSINESS MANAGEMENT III  
AND BACHELOR OF SCIENCE IN  
AGRICUTLURAL EDUCATION III.**

**COURSE CODE:** **APH 308**

**TITLE OF PAPER:** **RUMINANT ANIMAL PRODUCTION**

**TIME ALLOWED:** **TWO (2) HOURS**

**INSTRUCTIONS:** **ANSWER ANY FOUR (4) QUESTIONS, AT  
LEAST ONE (1) QUESTION FROM EACH  
SECTION.**

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

**SECTION A                      BEEF PRODUCTION**

**QUESTION 1**

Inbreeding and crossbreeding are important in beef cattle production. Show examples where crossbreeding and inbreeding have been utilized in beef cattle production. (25 marks)

**QUESTION 2**

What are the benefits of the beef cattle management techniques we performed during the practicals? Pick any 5 management techniques. (25 marks)

**SECTION B                      DAIRY PRODUCTION**

**QUESTION 3**

Discuss the effect of nutrition on milk yield and composition (25 marks)

**QUESTION 4**

Discuss the management of the replacement stock from birth to first (1<sup>st</sup>) calving. (25 marks)

**SECTION C: GOAT AND SHEEP PRODUCTION**

**QUESTION 5**

Discuss the feeding of a ewe through out its productive life for improved performance. (25 marks)

**QUESTION 6**

Discuss the constraints of sheep and goat production in Swaziland. (25 marks)