



**1<sup>st</sup> SEM. 2005/2006**

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**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

**PROGRAMME: DIPLOMA IN AGRICULTURE III AND DIPLOMA  
IN AGRICULTURAL EDUCATION III.**

**COURSE CODE:       APH 304**

**TITLE OF PAPER:   LARGE RUMINANT PRODUCTION**

**TIME ALLOWED:   TWO (2) HOURS**

**INSTRUCTIONS:    ANSWER FOUR (4) QUESTIONS, AT  
LEAST TWO (2) QUESTIONS FROM EACH  
SECTION**

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GRANTED BY THE CHIEF INVIGILATOR.**

**SECTION A: DAIRY PRODUCTION**

**QUESTION 1**

a) Describe the characteristics of the following dairy breeds:

i) The Ayrshire **(6 Marks)**

ii) The Jersey **(6 Marks)**

iii) The Friesian **(6 Marks)**

b) Which breed would you recommend for Swaziland and why? **(7 Marks)**

**QUESTION 2**

It has been observed that in the UNISWA dairy farm there is a significant increase in milk yield when the milkers are calm and gentle with the cows during milking, yet if there is a thunderstorm and strange noise during milking, yields are reduced markedly. Give an explanation for this phenomenon. **(25 Marks)**

**QUESTION 3**

Write short notes ont:

a) Buffer feeding of the milking herd **(15 Marks)**

b) Environmental mastitis **(10 Marks)**

**SECTION B BEEF PRODUCTION****QUESTION 4**

If you were asked to choose a breed of cattle to be raised in semi-arid regions of Southern Africa what breed characteristics would influence your choice. **(25 marks)**

**QUESTION 5**

Write short notes on the following:

- a) Data processing unit in the Ministry of Agriculture. **(6 marks)**
- b) Rural saleyards. **(6 marks)**
- c) Calving difficulty. **(13 marks)**

**QUESTION 6**

- a) Discuss the slaughtering and dressing of beef cattle in an abattoir, include the inspections associated with slaughtering of cattle. **(25 marks).**
- b) Give an account of the role dairy production plays in the economy of Southern African countries. **(25 marks)**