



**1<sup>ST</sup> SEM. 2009/2010**

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**UNIVERSITY OF SWAZILAND**  
**FINAL EXAMINATION PAPER**

**PROGRAMME:           BACHELOR OF SCIENCE IN**  
**AGRICULTURAL ECONOMICS AND**  
**AGRIBUSINESS MANAGEMENT II**  
**AND BACHELOR OF SCIENCE IN**  
**AGRICULTURAL EDUCATION II**

**COURSE CODE:        AS 208**

**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**

Discuss the marketing of beef cattle in Swaziland. (25 marks)

**QUESTION 2**

How do government ranches contribute to the beef cattle sector of the livestock industry in Swaziland? (25 marks)

**SECTION B.****DAIRY PRODUCTION****QUESTION 3**

Discuss the major problem of milk supply and demand in Swaziland and suggest how this problem can be corrected. (25 marks)

**QUESTION 4**

Briefly discuss the following:

- a. Buffer feeding (6 marks)
- b. Environmental mastitis (6 marks)
- c. Position of the dairy animal in the zoological scheme. (6 marks)
- d. Dairy calf colostrums feeding. (7 marks)

**SECTION C                      GOAT AND SHEEP PRODUCTION****QUESTION 5**

Most tropical forages are only adequate for maintenance purposes, hence supplementary feeding is necessary to provide an adequate diet for production purposes. Discuss concentrate feeding and practical considerations in the management of a ewe during the last two months of pregnancy. (25 marks)

**QUESTION 6.**

- (a) Discuss some of the causes of high mortality among new-born lambs under the following headlines: (25 marks)
- i) Injuries sustained during birth
  - ii) Starvation
  - iii) Poor sanitation
  - iv) Faulty nutrition

**OR**

- (b) Describe the characteristics and utilities of the following two breeds that have made them popular in the tropics and subtropics:
- i) the improved Boer goat (12 marks)
  - ii) the Dorper (13 marks)