



2nd SEM 2009/2010

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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
 AGRICULTURAL EDUCATION III**

COURSE CODE: APH 308

TITLE OF PAPER: RUMINANT ANIMAL PRODUCTION

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTIONS: ANSWER FOUR (4) QUESTIONS, AT EAST
 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**

Write short notes on the following:

- a) Rural sale yards (5 marks)
- b) Feedlots (5 marks)
- c) Sisa ranches (5 marks)
- d) Seedstock breeders (5 marks)
- e) Data processing unit in the Ministry of Agriculture. (5 marks)

Question 2

Discuss how as a ranch manager you would adjust your beef cattle management strategies during a drought situation. (25 marks)

SECTION B: DAIRY PRODUCTION**Question 3**

Discuss the dairy milking chain (25 marks)

Question 4

Discuss dairy calf liquid milk feeding. (25 marks)

SECTION 3 : GOAT AND SHEEP PRODUCTION**Question 5**

Goats and sheep are seasonal breeders, they breed when the day length becomes short under the influence of melatonin which is secreted by the pineal gland. However, the length of the breeding season can be as long as six months or as short as three to four cycles.

Discuss the factors which influence this variation in the length of breeding season in goats and sheep.

(25 marks)

Question 6

One of the most important things a goat farmer should do before buying a replacement buck is to make sure that the buck has passed the breeding soundness examination. Discuss how this breeding soundness examination is carried out in goats and sheep. (25 marks)