



1ST SEM. 2012/2013

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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,
WITH 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 how the following government projects have improved beef cattle production in Swaziland.

- a) Rural sale yards (5 marks)
- b) Feedlots (5 marks)
- c) Sisa ranches (5 marks)
- d) Government breeding ranches (5 marks)
- e) Fattening ranches (5 marks)

QUESTION 2

- a) What are the common beef cattle records a producer should keep, and how do these records help the producer to improve cattle productivity? (15 marks)
- b) What are the major functions of the Data Processing Unit in the Ministry of Agriculture? (10 marks)

SECION B.

DAIRY PRODUCTION

QUESTION 3

Discuss the different feeding systems for lactating dairy cows on SNL.
(25 marks)

QUESTION 4

Discuss the three common types of mastitis in Swaziland dairy herds.
(25 marks)

SECTION C GOAT AND SHEEP PRODUCTION

QUESTION 5

- a) Goat and sheep production has the potential to alleviate poverty and generate income. Discuss the characteristics of goats and sheep that make them advantageous over large ruminants under the headline "small size". (20 marks)

- b) List five methods that can be used to mate goat and sheep. (5 marks)

QUESTION 6.

Discuss the management of the doe/ewe under the following headlines:

- (i) Concentrate feeding (15 marks)
- (ii) Pregnancy and pre-kidding management. (10 marks)