



1ST SEM. 2014/2015

**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

**PROGRAMME: B.Sc. AGRICULTURAL ECONOMICS AND AGRIBUSINESS
MANAGEMENT YEAR 2
B.Sc. AGRICULTURAL EDUCATION YEAR 2**

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.
YOU NEED THREE BOOKLETS FOR THIS EXAMINATION
SINCE EACH SECTION MUST BE WRITTEN IN A
SEPARATE BOOKLET.**

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

SECTION A

BEEF PRODUCTION

QUESTION 1

The Nguni and the Brahman breeds are said to be ideal for the tropical environment.

Discuss the characteristics of these breeds that make them suitable for the tropical climate.

BJ Blamin

1-2

(25 Mark)

QUESTION 2

Write short notes on the following:

- (a) Crossbreeding in beef cattle **(9 Marks)**
- (b) Rural Sale Yards **(6 Marks)**
- (c) Data Processing Unit in the Ministry of Agriculture **(5 Marks)**
- (d) Live animal evaluation in an auction **(5 Marks)**

SECTION B

DAIRY PRODUCTION

QUESTION 3

- (a) Discuss colostrum feeding in dairy calf rearing.
- (b) Compare and contrast dairy performance of the Friesian and the Jersey cows under Swaziland conditions.

AM Blamin

3-4 **(15 Marks)**

(10 Marks)

QUESTION 4

Write notes about

- a) Dairy cattle buffers feeding **(9 Marks)**
- b) Lactation period **(8 Marks)**
- c) Heat detection **(8 Marks)**

SECTION C

GOAT AND SHEEP PRODUCTION

QUESTION 5

G2K.

(a) Discuss fully the management of the doe under the headline "pregnancy and pre-kidding management. (15 Marks)

(c) Explain fully and clearly how a farmer can choose a buck for breeding purposes using reproductive organs. (10 Marks)

5 + 6

QUESTION 6

(a) What are the possible causes of orphan and mismothered lambs. (8 Marks)

(b) Explain fully how a farmer can address the problem of orphan and mismothered lambs. (17 Marks)