



**1<sup>ST</sup> SEM. 2016/2017**

**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

**PROGRAMME: B.Sc. AGRICULTURAL EDUCATION YEAR 2**

**B.Sc. AGRICULTURAL ECONOMICS AND  
AGRIBUSINESS MANAGEMENT YEAR 2**

**COURSE CODE: AS 208/ASC209**

**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.**

**THIS PAPER SHOULD NOT BE OPENED UNTIL THE CHIEF  
INVIGILATOR HAS GRANTED PERMISSION.**

**SECTION A****BEEF PRODUCTION****QUESTION 1**

A farmer wants to cross the Brahman breed with the Simmental breed, however, he/she is not sure about the benefits and possible problems of this crossing. What would be your advice to him/her?

**(25 Marks)****QUESTION 2**

Discuss the major functions of government ranches and how efficient are these ranches in performing their functions?

**(25 Marks)****SECTION B****DAIRY PRODUCTION****QUESTION 3**

Ketosis and bloat are metabolic disorders resulting from nutritional problems in the dairy herd. Discuss the two.

**(25 Marks)****QUESTION 4**

Discuss the feeding of a calf from birth to weaning.

**(25 Marks)****SECTION C****GOAT AND SHEEP PRODUCTION****QUESTION 5**

A. Goats and sheep are recommended to traditional farmers as unique in alleviating poverty. Justify this sentence by itemizing all the characteristics of goats that made them qualify for this rating.

**(10 Marks)**

B. Itemize various ways by which goats and sheep management systems could be improved to meet the emerging global markets under the following headings:

- i. Site selection
- ii. Housing
- iii. Nutrition

**(15 Marks)**

**QUESTION 6**

Concisely discuss the following management practices in goat and sheep husbandry:

- a. Mating systems
- b. Fostering kids/lambs
- c. Identification
- d. Castration
- e. Record keeping

**(25 Marks)**