



**1<sup>ST</sup> SEM. 2017/2018**

**UNIVERSITY OF SWAZILAND**

**RE-SIT EXAMINATION PAPER**

**PROGRAMME:** B. Sc. AGRICULTURAL ECONOMICS  
AND AGRIBUSINESS MANAGEMENT II  
AND B. Sc. AGRICULTURAL EDUCATION  
III

**COURSE CODE:** 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.

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

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

(a) Discuss three major projects that were started by the government to reduce stocking rate in communal pastures. **(18 Marks)**

(b) Describe problems associated with the project in (a) above. **(7 Marks)**

**QUESTION 2**

The Nguni and the Brahman breeds are ideal for the tropical environment. Discuss the characteristics of these breeds that make them suitable for the tropical climate.

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

With the help of a diagram, discuss the internal anatomy of the udder outlining the key roles of the major parts.

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

Differentiate between:

- a. A Friesian and a Jersey dairy breed.
- b. Hand milking and machine milking.

**(15 Marks)****(10 Marks)**

**SECTION C**

**GOAT AND SHEEP PRODUCTION**

**QUESTION 5**

Sheep and goat industry could contribute substantially to total protein production in Swaziland but it is limited by many factors; enumerate these limitations and proper solutions to each.

**(25 Marks)**

**QUESTION 6**

Discuss factors to consider in ensuring maximum reproduction in sheep and goats during the breeding season.

**(25 Marks)**