



1ST SEM. 2018/2019

**UNIVERSITY OF SWAZILAND
RE-SIT EXAMINATION PAPER**

PROGRAMMES:

**B.Sc. AGRICULTURAL EDUCATION
YEAR III**

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

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.**

**ANSWER EACH SECTION IN A
SEPARATE BOOKLET.**

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

SECTION A: BEEF PRODUCTION**QUESTION 1**

What are the major problems that affect beef cattle production on Swazi Nation Land?

(25 Marks)

QUESTION 2

Discuss the need for and the location of the following beef cattle facilities:

(25 Marks)

- a. Loading chutes.
- b. Weighing scale.
- c. Spray race.
- d. Handling facilities.
- e. Silos.
- f. Cattle truck.

SECTION B: DAIRY PRODUCTION**QUESTION 3**

- a. Discuss the importance of colostrum in dairy calf management and explain when colostrum should be fed to the calves,
- b. State how milk hygiene can be ensured during milking.

(20 Marks)

(5 Marks)

(25 Marks)

QUESTION 4

- a. Explain five (5) factors to consider when choosing a dairy breed.
- b. Milk harvesting has been improved from hand milking to machine milking. Explain how this advancement benefits the dairy industry.

(15 Marks)

(10 Marks)

(25 Marks)

SECTION C: GOAT AND SHEEP PRODUCTION**QUESTION 5**

How do the following characteristics affect goat production in Eswatini Kingdom?

- a. Small size.
- b. Reproductive efficiency.
- c. Feeding behaviour.
- d. Feed utilisation.
- e. Adaptability.

(8 Marks)

(4 Marks)

(5 Marks)

(6 Marks)

(2 Marks)

(25 Marks)

QUESTION 6

- a. What are the signs of oestrus in goats?
- b. Discuss the factors that determine the ewe to ram ratio.

(8 Marks)

(17 Marks)

(25 Marks)

END OF QUESTION PAPER