



1ST SEM. 2016/2017

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY/RE-SIT EXAMINATION PAPER

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

COURSE CODE: AS 208/ASC209

TITLE OF PAPER: RUMINANT ANIMAL PRODUCTION

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTIONS: ANSWER ANY 4 QUESTIONS, WITH
ATLEAST 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**

Write short notes on the following:

- a) Government bull loan scheme. (5 Marks)
- b) Live animal evaluation during a sale. (5 Marks)
- c) Beef cattle inspection on the day of slaughter. (15 Marks)

QUESTION 2

Discuss **FIVE** (5) major problems affecting beef cattle production in Swaziland and suggest ways of resolving these problems in order to improve beef cattle productivity.

(25 Marks)

SECTION B**DAIRY PRODUCTION****QUESTION 3**

1. Write short notes on the following:

- a. Breeding dairy cows (10 marks)
- b. **FIVE** (5) factors to consider when choosing a dairy breed (10 marks)
- c. Advantages of robotic milking systems (5 marks)

QUESTION 4

Discuss the following:

- a) Calf identification (15 Marks)
- b) Environmental mastitis (10 Marks)

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

- a) Itemize the different traits that must be observed when selecting;
 - i) does/ewes and ii) bucks/rams for breeding purposes. (10 marks)
- b) Stepwisely discuss the care and management of goats and sheep new-born from birth to weaning age. (15 marks)

QUESTION 6

- a) Explain what you understand by the term “Condition Scoring” **(3 marks)**
- b) Discuss the importance of condition scoring in Sheep and goats management. **(10 marks)**
- c) Discuss the causes, symptoms, prevention and treatment of any **THREE (3)** diseases of goats/sheep. **(12 marks)**