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1ST SEM. 2018/2019

**UNIVERSITY OF ESWATINI
FINAL 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**

Describe the steps involved in slaughtering beef cattle and include the inspection that is undertaken in abattoirs. (25 Marks)

QUESTION 2

Write short notes on the following:

- i. Body Condition Scoring in beef cattle. (10 Marks)
- ii. Beef cattle Auction Sale Yards. (8 Marks)
- iii. Inbreeding in beef cattle. (7 Marks)

SECTION B: DAIRY PRODUCTION**QUESTION 3**

- a. Explain the importance of the following in dairy production:
 - i. Pulsator in milking machines. (3 Marks)
 - ii. Massage phase during milking. (3 Marks)
 - iii. Automatic shut-off valve in milking machines. (3 Marks)
 - iv. Pipeline system in the milking parlour. (3 Marks)
 - v. Oxytocin. (3 Marks)
- (15 Marks)
- b. Explain how dairy cows may be managed to calve every year. (10 Marks)

QUESTION 4

Write short notes on the following:

- a. Grazing with supplementary feeding system. (15 Marks)
 - b. Hygienic quality during milking. (10 Marks)
- (25 Marks)

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

List and discuss five (5) factors affecting puberty in sheep and goats. (25 Marks)

QUESTION 6

- a. Enumerate five signs of oestrus (heat) in sheep and goats (5 Marks)
 - b. Enumerate and discuss five(5) mating systems used in sheep and goat Breeding. (20 Marks)
- (25 Marks)