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UNIVERSITY OF SWAZILAND
SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: DIPLOMA IN AGRICULTURE III
DIPLOMA IN AGRICULTURAL EDUCATION III.

COURSE CODE: APH 304

TITLE OF PAPER: LARGE RUMINANT PRODUCTION

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTIONS: ANSWER FOUR (4) QUESTIONS, AT
LEAST TWO (2) QUESTIONS FROM EACH
SECTION**

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

SECTION A: DAIRY PRODUCTION

QUESTION 1

Discuss the feeding of dairy calves from parturition to weaning. **(25 marks)**

QUESTION 2

Write short notes on:

- a) Milking hygiene **(8 marks)**
- b) Herringbone palour system **(6 marks)**
- c) Flat rate concentrate feeding system **(8 marks)**
- d) ICC scores **(3 marks)**

QUESTION 3

Dairying is a chain of interdependent activities. Discuss this statement. **(25 marks)**

SECTION B: BEEF PRODUCTION

QUESTION 4

Discuss how harsh conditions and inadequate nutrition affect beef cattle productivity in the drier areas of Africa. **(25 marks)**

QUESTION 5

- a) What are the common beef cattle records a producer should keep and how do these records help the producer to improve herd productivity? **(15 marks)**
- b) What is the “National Beef Cattle Breeding Programme”? Discuss the functions of the above programme. **(10 marks)**

QUESTION 6

- a) Write an essay on "Beef cattle marketing in Swaziland. (15 marks)
- b) Discuss sanitation in a beef cattle slaughter facility. (10 marks).