



1ST SEM. 2012/2013

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**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

**PROGRAMME: BACHELOR OF SCIENCE IN
 ANIMAL SCIENCE IV**

COURSE CODE: AS 402

TITLE OF PAPER: BEEF PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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

QUESTION 1

The shortage of quality cattle for both local and export markets has made Swaziland Meat Industries (SMI) to promote feedlots in the country. What are the positive and negative elements about the way the feedlot project is run by SMI ?
(25 marks)

QUESTION 2

Describe the main beef cattle management activities in a commercial ranch and specify when these activities are done (months) and why they are done during that time and their importance in beef cattle production.
(25 marks)

QUESTION 3

Understanding nutrient requirement of different classes of beef cattle is critical in beef cattle production. Highlight the classes of beef cattle that need particular attention in terms of their nutrient requirements, and specify why their requirements are important.
(25 marks)

QUESTION 4

Balancing pasture productivity and animal performance is critical in maximising profitability in a ranch. Give detailed management strategies used when managing pastures and animal performance to ensure high cattle productivity.
(25 marks)

QUESTION 5

Discuss the factors involved in both bull and replacement heifer selection. Highlight the importance of each factor in reproduction and also give reasons for culling cows in a breeding herd.

(25 marks)