



1st Semester 2007/2008

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: APH 403

TITLE OF PAPER: DAIRY PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY 4 QUESTIONS

**THIS PAPER MAY NOT BE OPENED UNTIL THE CHIEF
INVIGILATOR HAS GRANTED PERMISSION.**

QUESTION 1

In the UNISWA dairy farm, the fat content of the milk is very low in spite of the fact that the milk yields are also low. What are the possible causes for this rare phenomenon and what corrective measures can you recommend?

(25 Marks)

QUESTION 2

- a) Discuss the role of three hormones in lactogenesis.
- b) Discuss the role of two hormones in galactopoiesis.

(15 Marks)

(10 Marks)

QUESTION 3

Discuss how the following affect milk yield and composition:

- a) Stage of lactation
- b) Genetics
- c) Season

(9 Marks)

(9 Marks)

(7 Marks)

QUESTION 4

Discuss the three different groups of mammals, and explain how one species has been extensively studied for dairy production.

(25 Marks)

QUESTION 5

Discuss two potential contributions of recombinant DNA technology to milk production and explain their major limitations.

(25 Marks)