



2nd SEM. 2010/2011

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: B. SC. ANIMAL SCIENCE Dairy
Option**

COURSE CODE: ASD 303

TITLE OF PAPER: DAIRY PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY 4 QUESTIONS.

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

QUESTION 1

Describe the distinguishing characteristics of a dairy breed that produces the highest milk yield and for a dairy breed that produces the highest butter fat content. Also explain with justifications, which breed you would recommend for your country. **(25 Marks)**

QUESTION 2

If the milk fats in your dairy herd are very low, and 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 3

Briefly discuss the following:

- a. Lactogenesis **(9 Marks)**
- b. Buffer feeding **(8 Marks)**
- c. Lactation persistency **(8 Marks)**

QUESTION 4

Discuss the enhancement of dairy cow performance by:

- a. Endogenous growth hormone manipulation **(10 Marks)**
- b. Milking frequency manipulation **(15 Marks)**

QUESTION

Discuss the status of milk production in Swaziland and explain how it can be improved. **(25 Marks)**