



2nd SEM. 2011/2012

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: B. Sc. ANIMAL SCIENCE, DAIRY
OPTION II**

COURSE CODE: ASD 201

TITLE OF PAPER: ORIENTATION TO DAIRY SCIENCE

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

Briefly discuss the following:

- a) Importance of oestrus detection in dairy production (5 Marks)
- b) Good hygiene during milking and milk handling (5 Marks)
- c) The implication of residual antibiotics in milk (5 Marks)
- d) Mastitis control in the dairy herd (5 Marks)
- e) Supplementary feeding of dairy cows (5 Marks)

Question 2

Discuss the importance of breed selection and environmental adaptability considerations in relation to the performance of dairy cows in Swaziland. (25 Marks)

Question 3

- a) Discuss the factors that negatively influence the productivity of the dairy cows kept by smallholder farmers on Swazi Nation Land (SNL) in the country. (15 Marks)
- b) Discuss the advantages and disadvantages of smallholder milk collection centres in rural communities. (10 Marks)

Question 4

Describe and justify how you would advise an aspiring dairy farmer who has a herd of indigenous cattle, land and water, to go about establishing a productive dairy herd. (25 marks)

Question 5

Explain the importance and procedure of the following dairy management techniques: dehorning, castration, and hot branding. (25 Marks)