



**1<sup>ST</sup> SEM. 2009/2010**

**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**

Discuss the procedures that are followed during milking to ensure that the milk is of high hygienic quality (25 Marks)

**QUESTION 2**

Explain the procedures and reasons for carrying out the following dairy practices:

- a) Herd identification (14 Marks)
- b) Dairy calf feeding with milk replacer (11 Marks)

**QUESTION 3**

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

**QUESTION 4**

Discuss the importance of record keeping in dairy production and explain examples of commonly kept records in dairy (25 Marks)

**QUESTION 5**

a. Describe the characteristics of the following dairy breeds:

- (i) The Friesian (5 Marks)
- (ii) The Jersey (5 Marks)
- (iii) The Ayrshire (5 Marks)
- (iv) The Guernsey (5 Marks)

b. Explain two differences between the *Bos taurus* and *Bos indicus*, also explain which from these species have been developed for Dairy (5 Marks)