



**UNIVERSITY OF SWAZILAND**

**2<sup>ND</sup> SEM.2013/2014**

**FINAL EXAMINATION PAPER**

**PROGRAMME: B.SC. ANIMAL SCIENCE YEAR 2 (DAIRY  
OPTION)**

**COURSE CODE: ASD 201**

**TITLE OF PAPER: ORIENTATION TO DAIRY SCIENCE**

**TIME ALLOWED: TWO (2) HOURS**

**INSTRUCTION: ANSWER ANY FOUR QUESTIONS**

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

**QUESTION 1**

- a) Write short notes on the following: (15 Marks)
- I. Replacement cows
  - II. Breeding bull
  - III. Milk
- b) What does dairy animal welfare involve? Describe four important provisions for the appropriate welfare of dairy animals. (10 marks)

**QUESTION 2**

- a) Artificial insemination (AI) is one of the improved techniques of cattle breeding that has a great impact in the dairy industry.
- As a professional you are requested to conduct AI in a dairy farm. Briefly outline the procedures and activities you will carry out. (12 Marks)
- b) Discuss the benefits and practices of feeding calves with colostrum. (13 Marks)

**QUESTION 3**

- a) Explain the role of individual animal identification in managing the dairy herd. (10 Marks)
- b) State the importance of heat stress management and outline the heat stress management methods. (15 Marks)

**QUESTION 4**

- a) Cows should be supervised during calving to render help as soon as it is needed. Discuss normal and abnormal presentations. (10 Marks)
- b) Identify five common dairy cattle diseases and briefly describe any two. (15 Marks)

**QUESTION 5**

- a) Explain what lactose intolerance is and indicate its cause. (10 Marks)
- b) List six criteria to be used for selection of dairy male and female breeds of cattle to be mated and explain any three. (15 Marks)