



UNIVERSITY OF SWAZILAND

2ND SEM.2013/2014

FINAL EXAMINATION PAPER

**PROGRAMME: B.SC. ANIMAL SCIENCE YEAR 3 (DAIRY
OPTION)**

COURSE CODE: ASD 303

TITLE OF PAPER: DAIRY PRODUCTION

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) Discuss the mechanism of milk ejection reflex. (15 Marks)
- b) Identify and explain factors that inhibit milk ejection reflex. (10 Marks)

QUESTION 2

- a) Compare goat's and cow's milk with regard to fat component. (5 Marks)
- b) Describe the structure and function of the major components of the mammary gland. (20 Marks)

QUESTION 3

- a) What is Eutrophication? Discuss its causes and possible prevention strategies in dairy farms. (15 Marks)
- b) Explain optimum calving to conception interval and describe the consequences of failure to attain this interval. (10 Marks)

QUESTION 4

- a) Explain the conditions that predispose heifers to stress while introducing them to a milking herd and how to minimize such problems. (15 Marks)
- b) With the help of sketch, describe two milking parlour designs. (10 Marks)

QUESTION 5

- a) Explain how the mammary cell number and activity change in the course of lactation. (15 Marks)
- b) Explain the effect of parity and pregnancy on lactation persistency. (10 Marks)