



UNIVERSITY OF SWAZILAND

2ND SEM.2012/2013

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 three types of dairy farming systems. (13 marks)
- b) Give three major dairy cattle breeds of the world and describe four typical characteristics of each breed. (12 marks)

QUESTION 2

- a) Explain the characteristics of traditional and commercial livestock production sectors in Swaziland and describe their relative contribution to the country's milk production. (10 marks)
- b) Define lactation persistency and explain three factors that affect lactation persistency. (15 marks)

QUESTION 3

- a) Discuss the two mechanisms of milk let-down (18 marks)
- b) List seven aspects that should be given due consideration in making dairy waste management plans. (7 marks)

QUESTION 4

Discuss five factors that affect milk yield and composition. (25 marks)

QUESTION 5

- a) Discuss the main targets in rearing replacement heifers for a dairy herd. (10 marks)
- b) Identify and explain the requirements while introducing newly calving replacement heifers into the herd. (15 marks)