



2ND SEM. 2011/2012

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: **B. Sc. ANIMAL SCIENCE AND
B.Sc. AGRICULTURAL EDUCATION
YEAR IV**

COURSE CODE: **AS 403**

TITLE OF PAPER: **DAIRY PRODUCTION AND
TECHNOLOGY**

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

INSTRUCTIONS: **ANSWER ANY 4 QUESTIONS.**

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

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Question 1

Discuss the three different groups of mammals and explain why only one group has been developed for dairy production. (25 Marks)

Question 2

Discuss persistency of lactation and explain how the stage of lactation may affect milk yield and composition. (25 Marks)

Question 3

Compare and contrast the following:

- a) Coliform bacteria and lactic acid bacteria (4 Marks)
- b) Lactogenic hormone and galactopoietic hormone (5 Marks)
- c) Hydrogen peroxide system and lactoperoxidase system (10 Marks)
- d) Koumis and Yoghurt (6 Marks)

Question 4

- a) Describe and illustrate the two anomers of milk lactose (12 Marks)
- b) Define whey and briefly discuss three different ways it can be utilized (13 Marks)

Question 5

Outline the principle and procedure for production of acid cheese. (25 Marks)