



2ND SEM. 2016/2017

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY 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.**

QUESTION 1

Discuss the five major dairy production systems used world-wide and state the one used in Swaziland.

(25 marks)

QUESTION 2

Write short notes on the following:

a. Milk let down

(13 marks)

b. Marsupials

(12 marks)

QUESTION 3

With the help of a diagram, discuss lactation persistency and discuss how the stage of lactation affect milk yield and composition.

(25 marks)

QUESTION 4

Briefly explain the following:

a. Thermization

(10 marks)

b. Factors that affect the keeping quality of milk

(9 marks)

c. Three (3) differences between whey proteins and casein protein

(6 marks)

QUESTION 5

Discuss pre-treatment of milk before processing.

(25 marks)