



2ND SEM. 2016/2017

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.**

QUESTION 1

Discuss the effect of nutrition on milk yield and composition.

(25 Marks)

QUESTION 2

Briefly discuss the following:

a. Advantages and disadvantages of robotic milking systems

(15 marks)

b. Five (5) differences between hand milking and machine milking

(10 marks)

QUESTION 3

Discuss non-hormonal manipulation of animal performance

(25 marks)

QUESTION 4

Differentiate between the following:

a. Lactoperoxidase system and hydrogen peroxidase system

(10 marks)

b. Koumiss and acidophilus milk

(10 marks)

c. Lactogenic and galactopoietic hormones

(5 marks)

QUESTION 5

Outline the principle and procedure for producing emasi.

(25 marks)