

2nd SEM. 2011/2012

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME:

B. SC. ANIMAL SCIENCE IV AND

B.SC. ANIMAL SCIENCE DAIRY

OPTION

COURSE CODE:

ASD 303/APH 403

TITLE OF PAPER:

DAIRY PRODUCTION

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 how the feeding and nutrition of pre-pubertal heifers influences the development of the mammary gland and subsequent milk yielding capacity. (25 Marks)

Question 2

- a) Discuss the physiology of milk let down and hold up in the dairy cow (10 Marks)
- b) Discuss how the administration of exogenous bovine somatotropin influences lactation efficiency in the lactating cow. (15 Marks)

Question 3

Briefly discuss the following:

a)	Parturient paresis	(9 Marks)
b)	Lactation persistency	(8 Marks)
c)	Galactopoiesis	(8 Marks)

Question 4

An aspiring commercial dairy farmer intends to produce milk economically on a farm in Swaziland:

a) Briefly explain three dairy production systems that can be used.	(9 Marks)
b) Explain with justifications the system you would advise	
the farmer to practice for economic production.	(16 Marks)

Question 5

You are asked to solve a problem of declining milk yield and milk fat content in a dairy farm. Explain the possible reasons for this and how this problem can be solved. (25 Marks)