

2<sup>ND</sup> SEM. 2015/2016

## 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 following:

a.	Dairy production and technology.	(10 Marks)
b.	Importance of dairy science.	(10 Marks)
		(10 Marks)
C.	Major functions of the Swaziland Dairy Board.	(5 Marks)

(25 Marks)

#### **QUESTION 2**

Discuss the major differences in milk production between the developing and developed countries (25 Marks)

## **QUESTION 3**

Briefly discuss lactogenesis. With an aid of a diagram, discuss how the stage of lactation affect milk yield and composition. (25 Marks)

#### **QUESTION 4**

Giving TWO examples in each case, explain the differences between the following:

-1	Yr	
a)	Yeast culture and lactic acid bacteria culture	
b)	Coliform bacteria and lactic acid bacteria	(7 Marks)
`	Garage and factic acid bacteria	(7 Marks)
c)	Casein proteins and whey proteins	
d)	Saturated and unsaturated milk fatty acids	(6 Marks)
		(5 Marks)
		Control of the Contro
		(25 Marks)

## **QUESTION 5**

COMPARE and CONTRAST the technologies of the following dairy products:

a.	Koumis and yoghurt	
b.	Ice cream and ice milk	(8 Marks)
	Acid cheese and sweet cheese	(8 Marks)
		(9 Marks)
		(25 Marks)