

UNIVERSITY OF SWAZILAND 2ND SEM. 2014/2015

FINAL EXAMINATION PAPER

PROGRAMME:

B. Sc. ANIMAL SCIENCE DAIRY OPTION YEAR IV

COURSE CODE: ASD 403

TITLE OF PAPER: MILKING AND MILK HYGIENE

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY 4 QUESTIONS.

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

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QUESTION 1	·
Discuss milk let-down and milk hold-up phenomena in the dairy cow.	(25 Marks)
QUESTION 2	
Write notes about the following:	
a) The Koesler value.	(8 Marks)
b) Contagious mastitis.	(9 Marks)
c) Milk adulteration.	(8 Marks)
QUESTION 3	
a) Describe colostrum and explain three reasons why it	
should not be mixed with consumer milk.	(7 Marks)
b) Explain the following:	
i) Possible sources of antibiotics in consumer milk.	(6 Marks)
ii) Three reasons why consumer milk should be free of antibi	otics. (12 Marks)
QUESTION 4	
Explain and illustrate the major anatomical differences amongst the	
udders of the cow, goat and sheep.	(25 Marks)
QUESTION 5	
a) Briefly describe the following organisms and explain their	
significance in milk hygiene:	(25 Marks)
a. Salmonella typhimurium	
b. Bacillus stearothermophilus	
c. Staphylococcus aureus	
d. Escherichia coli	
e. Pseudomonas fluorescence	