



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS
FIRST YEAR EXAMINATION FOR THE AWARD OF THE
CERTIFICATE IN ANIMAL HEALTH / ANIMAL SCIENCE
FIRST SEMESTER 2022/2023
(SEPTEMBER - DECEMBER, 2022)

ANSC 00366: DAIRY TECHNOLOGY

STREAM: Y1 S1

TIME: 2 HOURS

DAY: MONDAY, 3:00 P.M – 5:00 P.M

DATE: 19/12/2022

INSTRUCTIONS:

- 1. Do not write anything on this question paper.***
- 2. Answer Question ONE (Compulsory) and any other TWO Questions.***

1 (a) Explain how these words are used in Dairy technology

- (i) Colostrum
 - (ii) Heifer
 - (iii) Exotic cattle
 - (iv) Cheese breed
 - (v) Selection
 - (vi) Crossbreeding
 - (vii) Artificial insemination
 - (viii) Kenya Dairy Board
 - (ix) Lactation length
 - (x) Kidding (10 marks)
- (b) Outline on two important roles of colostrum to a calf. (4 marks)
- (c) Mention FOUR reasons why Kenya Dairy Board was established. (8 marks)

(d) Which are the Four risk factors related to infertility in cows. (4marks)

(e) One of the reasons for diarrhoea in calves is improper feeding management; elaborate. (4 marks)

2 (a)The cow spends 8-10 hours per day ruminating. The rumination cycle consist of FOUR functions. Explain those four functions. (10 marks)

(b) Briefly explain how you can prepare a milk replacer. (5marks)

(c) Give at least FIVE advantages of stall feeding of goats. (5 marks)

3 (a) Discuss FIVE points why people keep Dairy goats. (10 marks)

(b) Give six advantages and FOUR disadvantages of artificial insemination.

(10 marks)

4 (a) What are the economic importance of infertility in Dairy cows. (10 marks)

(b) Discuss factors affecting physical and chemical properties of milk.

(10 marks)