



UNIVERSITY EXAMINATIONS
THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN ANIMAL SCIENCE
SECOND SEMESTER 2024/2025
[JANUARY – APRIL, 2025]

ANSC 351: DAIRY CATTLE PRODUCTION

STREAM: Y3 S2

TIME: 2 HOURS

DAY: THURSDAY, 12:00 - 2:00 P.M.

DATE: 17/04/2025

INSTRUCTIONS:

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

SECTION ONE (30 Marks)

1. a) Explain the following term;
 - i. Calving interval (2 Marks)
 - ii. Non-return rate (2 Marks)
 - iii. Days open (2 Marks)
 - b) Differentiate between the following
 - i) Lacto genesis and galactopoietic (2 Marks)
 - ii) Steaming up and Challenge feeding (2 Marks)
 - iii) Selection and culling (2 Marks)
 - c) Describe the essential features of an ideal calf house (6 Marks)
 - d) Highlight the factors that influence the selection of a dairy cattle breed (5 Marks)
 - e) Discuss the marketing of dairy products in Kenya (7 marks)
2. Describe the following nutritional disorders of dairy cattle
 - i) Grass staggers (5 Marks)
 - ii) Fatty Liver (5 Marks)

iii) Displaced abomasum (5 Marks)

iv)Acidosis (5 Marks)

3. a) Discuss the challenges faced by smallholder dairy farmers in Kenya
(12 Marks)

b) Despite the challenges of dairy farming, Kenya's dairy sector has numerous opportunities for growth and innovation. Justify this statement. (8 Marks)

4. With the use of a diagram, explain the changes in energy requirements and feed intake in a dairy cow during the various stages of lactation (20 Marks)