



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya

Tel: +254(0) 799 529 958, +254(0) 799 529 959, + 254 (0) 712 524 293,

Website: info@must.ac.ke Email: info@must.ac.ke

University Examinations 2024/2025

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELLOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION

AAP 3307: DAIRY AND BEEF PRODUCTION SYSTEMS

DATE: JANUARY 2025

TIME: 2 HOURS

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Describe three factors that affect energy requirements in dairy cows (6 Marks)
- b) Describe the milk inhibition process (5 Marks)
- c) List the characteristics of a desirable carcass and factors that affect carcass composition (5 Marks)
- d) Suggest four reasons why dairies will not accept milk from cows that have been recently treated for mastitis. (4 Marks)
- e) Explain five factors that affect marketing of dairy and beef products (5 Marks)
- f) Describe the Jersey and Boran breeds of cattle (5 Marks)

QUESTION TWO (20 MARKS)

- a) Discuss the beef production systems practised in Kenya (10 Marks)
- b) Describe the factors that influence systems suitability of an area for dairy production (10 Marks)

QUESTION THREE (20 MARKS)

- a) List and discuss specific practices that a beef farmer might employ to reduce the cost of production
(10 Marks)
- b) Distinguish between selection and culling and explain the criteria used for selecting dairy animals for breeding
(10 Marks)

QUESTION FOUR (20 MARKS)

- a) Describe the management of a dairy calf from birth to weaning
(10 Marks)
- b) List any five notifiable diseases that affect beef cattle and discuss the main challenges facing the control of animal diseases and pests in the country
(10 Marks)