THE NATIONAL UNIVERSITY OF LESOTHO FACULTY OF AGRICULTURE

DEPARTMENT OF ANIMAL SCIENCE

B.Sc. AGRICULTURE (ANIMAL SCIENCE) SUPPLENTARY EXAMINATION

ANS 4509: LARGE RUMINANT PRODUCTION

AUGUST 2023 MARKS: 100 TIME: 3 Hours

Instruction: Answer All Questions in SECTION A and SECTION B.

SECTION A; BEEF PRODUCTION

Care at calving

Feeding colostrum

Common disease problems

i)

ii)

iii)

Ouestion 1

a) Outline six features that beef cattle should possess. [6] b) Briefly discuss the five performance traits that should be considered in selection of a breed. [10] c) From your knowledge of beef production, enumerate what would you say are the main constraints to beef production in Lesotho and explain three of the constraints. [9] **Question 2** a) Explain five routine management practices critical in beef cattle production. [10] b) Discuss the major classes used for quality grading of steer and heifer carcasses. [10] c) Clearly indicate how muscle contraction affects the quality of meat in beef production. [5] **SECTION B; DAIRY PRODUCTION Question 1** a) What are the five factors to be considered when selecting a dairy animal? [5] b) Black quarter is a bacterial disease caused by Clostridium chauvoel and affects cattle. Explain the salient clinical signs for its diagnosis and its prevention. [5] c) What are the management strategies for transition cows? [5] **Question 2** Discuss management of calves under the following headings; [15]

Question 3

a) With the aid of a graph discuss the lactation curve/milk production in dairy cows.[20]