JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

FOURTH YEAR SECOND SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

2019/2020 ACADEMIC YEAR

COURSE CODE: AAS 3421

COURSE TITLE: Beef and Camel Production

EXAM VENUE: **STREAM: BSc. (Animal Science)**

DATE: **EXAM SESSION:**

TIME: 2 HOURS

Instructions:

1. **Answer ALL questions in Section A and ANY TWO Questions in Section B.**
2. **Candidates are advised not to write on question paper.**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A [30 MARKS]

Answer ALL questions in this Section

Question 1

a) Explain how improvement in animal nutrition has contributed
    to improvement in beef production.   (5 marks)
b) Present a schematic partition of food energy in the animal.   (2 marks)
c) List four factors which determine economic ranch beef production. (3 marks)

Question 2

a) Outline the main camel production systems and their corresponding
    climatic conditions.   (6 marks)
b) Give **at least four** descriptors for extensive camel milk production in
    Kenya.   (4 marks)

Question 3

a) Differentiate between grazing management and herd management in the
    context of beef production.   (4 marks)
b) List four main factors that determine the design of a ranch layout. (3 marks)
c) Which are the main camel genetic resources in Kenya?   (3 marks)

SECTION B [40 MARKS]

Answer ANY Two questions from in Section.

Question 4
In extensive beef and camel production there are inevitable checks to animal
growth at certain stages. Discuss what these stages are and their importance.   (20 marks)

Question 5
Identify and discuss the key cattle management practices in a beef ranch.   (20 marks)

Question 6
Discuss the design and importance of paddocks and associated handling facilities in ranch
management.

(20 marks)

Question 7

a) Discuss the three main stress factors in weaned beef calves.   (6 marks)
b) Explain four main reasons for culling beef calves.   (6 marks)
c) Describe the management of the breeding beef herd.   (8 marks)