JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

UNIVERSITY EXAMINATION
FOR THE
DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT; BSc. ANIMAL SCIENCE; BSc. FOOD SECURITY AND BSc. AGRICULTURAL EDUCATION AND EXTENSION

2019/2020 ACADEMIC YEAR
RESIT

COURSE CODE: AAS 3221
COURSE TITLE: PRINCIPLES OF ANIMAL PRODUCTION

EXAM VENUE:

STREAM: Agribusiness Management;
BSc. Education & Extension
BSc. Animal Science'
BSc. Food Security

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

1. **Answer ALL questions in section A and ANY other 2 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 the Questions in this Section

1. a. List five (3) common breeds of dairy cattle and sheep in Kenya. **(3 Marks)**

b) Define Steaming in reference to dairy production. **(2 Marks)**

c). Using examples differentiate Physiological age from chronological age **(3 Marks)**

d. List some of the synthetic hormones which have been used to manipulate animal production. **(2 Marks)**

2. a) Outline factors affecting reproductive performance of farm animals. **(5 Marks)**

b. Highlight 4 farm structures and their functions. **(2 Marks)**

c. Outline modes of inheritance in relations to animal production. **(2 Marks)**

3. a) Give categories of disease causing agents in animals **(5 Marks)**

b) Briefly discuss genotype selection including its relation to animal performance. **(3 Marks)**

c) Using examples briefly discuss homeostasis and how it affects animal production. **(3 Marks)**

SECTION B (40 Marks)

Answer Any Two Questions from this Section

4. Explain the challenges facing the agricultural sector as outlined in the Kenya Vision 2030. **(20 Marks)**

5. Describe the features of the dairy industry and the challenges facing smallholder dairy farmers in Kenya? **(20 Marks)**

6. Explain briefly **why** and **how** the following management practices are carried out in the beef cattle industry.

(i) Castration **(5 Marks)**

(ii) Branding **(5 Marks)**

(iii) Dehorning **(5 Marks)**

(iv) Synchronization of estrus **(5 Marks)**