



**KAIMOSI FRIENDS UNIVERSITY
SECOND YEAR SECOND SEMESTER UNIVERSITY
EXAMINATIONS
2025/2026 ACADEMIC YEAR**

SPECIAL EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE TITLE: PRINCIPLES OF ANIMAL PRODUCTION

COURSE CODE: ACR104/AAP 201/AGR 104

DAY/DATE: 17TH JUNE, 2026

TIME: 9-11 AM

INSTRUCTIONS TO STUDENTS

- 1. ANSWER QUESTION ONE AND ANY OTHER TWO FROM THE CHOICES GIVEN.**
- 2. PHONES, SMART WATCHES, EAR PHONES OR ANY OTHER UNAUTHORIZED DIGITAL AND AI GADGETS AND APPLICATIONS ARE NOT ALLOWED IN THE EXAMINATION ROOM.**
- 3. ANSWER ALL QUESTIONS IN THE EXAM ANSWER BOOKLET PROVIDED.**
- 4. DO NOT WRITE ON THIS QUESTION PAPER.**
- 5. ALL KAFU EXAMINATION RULES AND REGULATIONS APPLY.**
- 6. DURATION OF EXAMINATION: TWO (2) HOURS**

KAFU observes ZERO tolerance to examination cheating.
This paper consists of TWO printed pages. Please turn over.



QUESTION ONE (30 Marks)

- a. List three advantages of scientific animal production techniques (3marks)
- b. List four management practices under ranching systems (4marks)
- c. List and explain four major factors affecting genetic progress (4marks)
- d. Give three reasons why overstocking persists under communal land ownership (3marks)
- e. Describe the four compartments of the goat stomach and their functions (2marks)
- f. List four major epizootic diseases of cattle in Kenya (4marks)
- g. Mention four signs of African swine fever. (4marks)
- h. Explain the major parameters used in performance evaluation of poultry (3marks)
- i. Discuss advantage and disadvantage associated with pastoralism and ranching systems (3marks)

QUESTION TWO (20Marks)

- a. Trace the historical development of animal production from domestication to modern technological applications (10Marks)
- b. Discuss feeding and grazing behaviour of goats in the tropics and explain how seasonal changes affect productivity (10Marks)

QUESTION THREE (20Marks)

- a. Explain the ranching system of livestock production and discuss its management practices. (10Marks)
- b. Discuss the integrated livestock production system and give at least three practical examples (10Marks)

QUESTION FOUR (20Marks)

- a. Discuss the methods of genetic improvement in pigs. In your answer, include selection, crossbreeding and factors affecting genetic progress. (10Marks)
- b. Compare and contrast progeny testing and performance testing, stating their advantages and limitations (10Marks)

QUESTION FIVE (20Marks)

- a. Discuss the **traditional system of cattle production** in Kenya, highlighting its major features and challenges (10Marks)
- b. Discuss the **major constraints to cattle production in Kenya**, giving practical examples. (10Marks)