



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**SECOND YEAR SECOND SEMESTER UNIVERSITY EXAMINATION FOR THE  
DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE, FOOD  
SECURITY, BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION  
AND EXTENSION AND BACHLOR OF SCINECE IN AGRIBUSINESS  
MANAGEMENT**

**2024/2025 ACADEMIC YEAR**

**RECEIPT**

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**COURSE CODE: AAB 1307**

**COURSE TITLE: LIVESTOCK PRODUCTION SYSTEM**

**EXAM VENUE: SIAYA CAMPUS**

**STREAM: BSc. Animal Science , Bsc. Food Security, BSc AGED and BSc AGBM**

**DATE:**

**EXAM SESSION:**

**TIME: 2 HOURS**

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**Instructions:**

- 1. Answer ALL the questions in section A and any TWO 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.**
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**SECTION A [30 MARKS]**

**SECTION A: ANSWER ALL QUESTIONS (30 MARKS)**

1. (a) Define the following:

- i) Ranching
- ii) Nutrient
- iii) feedlot
- iv) Parturition
- v) Ruminant [4marks]

(b) Explain the following livestock systems of production;-

- i. zero grazing
- ii. Pastoralism [5marks]

2. Explain the following THREE production system in poultry production (6 marks)

3. Discuss the 3 major dairy cattle exotic breeds in Kenya. (6 marks)

4. Explain different classes of animal feeds giving examples of each case? (6marks]

5. Outline advantages and disadvantages of Artificial Insemination as applied in animal breeding (6 marks)

**SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)**

1. Mention and explain factors that determine the choice of a livestock production system [20 marks]
2. Compare and contrast the extensive and intensive livestock production systems giving examples in each case (20 marks)
3. Livestock production systems analysis refers to the process of evaluating and understanding the various components, processes, and interactions within livestock farming systems. (10 marks)
4. Pest and diseases are major concern livestock industry.
  - i. Explain the general methods that should be applied on a farm to avoid outbreaks or spread of diseases (5marks)
  - ii. Explain what is meant by notifiable diseases and give examples (5marks)