



**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 AGRIBUSINESS MANAGEMENT AND  
BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION**

**2021/2022 ACADEMIC YEAR**

---

**COURSE CODE: AAB 1307**

**COURSE TITLE: Livestock Production Systems**

**VENUE:** **STREAM: BSc. (Agribusiness Management) &  
BSc. (Agricultural Education and Extension)**

**DATE:** **TIME:**

**TIME: 2 HOURS**

---

**Instructions:**

- 1. Answer ALL questions in Sections a and B and ANY ONE question in Section**
- 2. Candidates are advised NOT to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**SECTION A [20 MARKS]**

**Answer ALL Questions from this Section.**

1. (a) Define the term livestock production system. (2 marks)  
(b) Which are the **four** main inputs in a livestock production system? (4 marks)
2. Draw a diagram showing the main components of a livestock production system and how they relate. (4 marks)
3. State the **two** categories into which livestock feed may be grouped. (2 marks)
4. State and explain the **three** general outputs of livestock production systems. (3 marks)
5. State the main differences between **extensive** and **intensive** livestock production systems. (2 marks)
6. Name the **three** main types of grassland-based livestock production systems (3 marks)

**SECTION B [30 MARKS]**

**Answer ALL Questions from this Section.**

7. (a) Categorize the extensive and intensive livestock productions systems by level of management. (5 marks)  
(b) State any **five** main characteristics of areas where pastoralists can be found.(5 marks)  
(c) Give ANY **five** characteristics of nomadism. (5 marks)  
(d) What are the **two** modes of herd mobility? (2 marks)
8. State ANY **five** strategies to avoid risk among pastoralists. (5 marks)
9. (a) Explain the term agro-pastoralism. (2 marks)
10. (b) What are the **three** advantages of agro-pastoralism or integrated system of livestock production? (3 marks)  
(c) List advantages of zero grazing system of livestock production. (3 marks)

**SECTION C [20 MARKS]**

**Answer ONE Question from this Section.**

11. Write short notes on the following:
  - a) Feedlot. (4 marks)
  - b) Feedlot finishing of pastoral cattle. (4 marks)
  - c) Agro-pastoralism. (4 marks)
  - d) Free grazing system. (4 marks)
  - e) Ranching systems. (4 marks)
12. Identify and discuss the main types of extensive livestock production systems. (20 marks)
13. Identify and discuss the main types of intensive livestock production systems. (20 marks)