



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2022/2022 ACADEMIC YEAR  
THIRD YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCES & ANIMAL  
SCIENCES**

**BACHELOR OF SCIENCE IN ANIMAL HEALTH AND  
PRODUCTION**

**COURSE CODE: AHP 3106-1 RUMINANT LIVESTOCK  
PRODUCTION SYSTEMS**

**DATE: 13TH DECEMBER, 2022**

**TIME: 1430-1730**

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**INSTRUCTIONS:**

- (i) *Attempt ALL the questions*
- (ii) *Label your answers clearly*
- (iii) *Don't mix up answers*
- (iv) *DO NOT WRITE anything on the question paper*

### **Question 1**

Discuss the common constraints to the development of beef cattle production and propose ways in which such constraints can be tackled, under the following sub-heading.

- a) Technical support services (4 marks)
- b) Market access (6 marks)
- c) Breeding and genetics (4 marks)
- d) Feed and nutrition (4 marks)

### **Question 2**

Discuss the economics of sheep and goat production under the following sub-headings

- a) Changes in consumer preferences for meat and meat products (8 Marks)
- b) Increasing farm sizes (6 Marks)
- c) Globalization & industrialization (6 Marks)

### **Question 3**

- a) Discuss the economic importance of the dairy cattle enterprises in Kenya under the following sub-headings. (10 marks)
  - i. Milk production
  - ii. Heifer production (Cow Calf Operations)
  - iii. Mixed production systems
- b) Discuss the key benefit(s) of dairy cattle keeping to sub-Saharan communities. (10 marks)

### **Question 4**

Discuss the economic importance of sheep and goat enterprises in sub-Saharan Africa (20 marks)

### **Question 5**

Discuss any **ten** (10) key changes facing the livestock industry in Kenya, while highlighting the key stakeholders in the sector (20 marks)

### **Question 6**

Discuss constraints to development of livestock production systems in Kenya. (20 Marks)

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