



# UNIVERSITY OF EMBU

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**2020/ 2021 ACADEMIC YEAR**

**TRIMESTER EXAMINATIONS**

**FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN  
ANIMAL SCIENCE**

**ART 601: AGRICULTURAL PRODUCTION SYSTEMS**

**DATE: AUGUST 10, 2021**

**TIME: 2:00-5:00PM**

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**INSTRUCTIONS:**

**ANSWER ANY FOUR QUESTIONS**

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**QUESTION ONE (25 MARKS)**

- a) Describe the agro-ecological zones in Kenya and their importance (10 marks)
- b) Discuss the important issues that are common to all nutrient cycles in tropical climates (15 marks)

**QUESTION TWO (25 MARKS)**

- a) Discuss the concepts of biodiversity and molecular basis of biodiversity in the animal kingdom (10 marks)
- b) Discuss animal genetic resources and their utilization and conservation in Kenya (15 marks)

**QUESTION THREE (25 MARKS)**

- a) Analyse the livestock production systems in Kenya for their relevance in food provision (10 marks)
- b) Review the management of livestock production systems in Kenya (15 marks)

**QUESTION FOUR (25 MARKS)**

- a) Review the quality of livestock products in Kenya (15 marks)
- b) Analyse the economics of crop and livestock production in Kenya (10 marks)



ISO 27001:2013 Certified

*Knowledge Transforms*



ISO 9001:2015 Certified

**QUESTION FIVE (25 MARKS)**

a) Discuss energy sources for use in livestock production in Kenya

(25 marks)

**END**

