



# MACHAKOS UNIVERSITY

University Examinations for 2017/2018 Academic Year

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

SECOND YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE

IN AGRIBUSINESS MANAGEMENT

ANS 201: LIVESTOCK PRODUCTION SYSTEMS

DATE: 15/12/2017

TIME:11.00-1.00 PM

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**Instructions:**

Answer question ONE and any other TWO questions

**QUESTION ONE (30 MARKS)**

Briefly

- a) Define ecosystems (3 marks)
- b) Outline six approaches to system analysis (6 marks)
- c) Outline the four of livestock functions (8 marks)
- d) Write short notes on availability of plant nutrients in relation to farming systems (5 marks)
- e) List four ways in which poultry contributes to the Kenyan economy (4 marks)
- f) Define nomadic pastrolism and outline its three ways of land utilization (4 marks)

**QUESTION TWO (20 MARKS)**

Discuss four climatic factors affecting farming systems (20 marks)

**QUESTION THREE (20 MARKS)**

- a) Discuss four Extensive modern beef and dairy livestock production systems (8 marks)
- b) Discuss three Intensive beef and dairy livestock production systems (6 marks)
- c) Discuss the village or backyard poutry production system (6 marks)

**QUESTION FOUR (20 MARKS)**

- a) List 3 basic implications of system concepts (6 marks)
- b) Discuss the general classification of global livestock production systems (10 marks)
- c) List three poultry production systems (3 marks)
- d) Define what is a livestock unit (LU) (1 mark)

**QUESTION FIVE (20 MARKS)**

- a) Discuss four types of aquaculture production systems (12 marks)
- b) Discuss three types goat production systems (6 marks)
- c) List any two types of pig production systems (2 marks)