



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

FIRST SEMESTER EXAMINATION

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
AGRIBUSINESS MANAGEMENT, BACHELOR OF SCIENCE IN AGRICULTURE
EDUCATION AND EXTENSION AND BACHELOR OF SCIENCE IN AGRICULTURE

AAS 306/AEB 301/AAS 313: LIVESTOCK PRODUCTION SYSTEMS/LIVESTOCK
MANAGEMENT SYSTEMS

DATE: NOVEMBER 30, 2016

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE (30 MARKS)

- a) Define the following terms
- i. Hybridization (1 mark)
 - ii. Sex-reversal (1 mark)
- b) Explain two distinct features that distinguish production in the following systems
- i. Large scale and small scale cattle systems (2 marks)
 - ii. Ranching and pastoralism (2 marks)
- c) Write short notes on the following terms and concepts
- i. Zero grazing system (3 marks)

- ii. Swarming (3 marks)
- iii. Lighting program in layers (3 marks)
- d) Describe the three pillars of the Kenya vision 2030 (3 marks)
- e) Explain how livestock production is aligned in the Kenya Vision 2030 through the flagship projects (4 marks)
- f) Describe the viability or not of feedlot fattening in Kenya (3 marks)
- g) Describe commercial pig production under the Kenyan condition (3 marks)
- h) Name two breeds of layers commonly produced in Kenya (2 marks)
- i) Explain three reasons why farmers prefer sheep production to goat production in Kenya (3 marks)

QUESTION TWO (20 MARKS)

- a) Describe three methods of tilapia fingerling production commonly used in Kenya (6 marks)
- b) Explain four reasons why some farmers in rural areas of Nakuru County may not use artificial insemination (AI) for cattle breeding (4 marks)
- c) Describe situations where it may be economical to keep beef over dairy cattle (5 marks)
- d) Describe constraints to marketing of products from apiculture in Kitui county (5 marks)

QUESTION THREE (20 MARKS)

- a) You are to start a small dairy farm with 3 cows, describe 6 factors you may consider before venturing into the business of smallholder dairy production (6 marks)
- b) Describe the strategies that can be used to improve major sectors of the beef value chain (5 marks)

- c) The Kenyan dairy industry is dominated by smallholder farmers. Outline five reasons why farmers prefer smallholder dairy systems (5 marks)
- d) Describe four potential advantages of rearing pigs (4 marks)

QUESTION FOUR (20 MARKS)

- a) Describe 5 factors to consider in order to prevent spread of diseases in fish ponds (5 marks)
- b) Discuss the main stakeholders in the beef value chain citing their names, roles and direct and indirect support that they provide to the industry (6 marks)
- c) Describe two common pig production systems in Kenya (4 marks)
- d) Describe the specific constraints faced by stakeholders in the beef industry (5 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss major constraints facing the dairy sector in the Kenyan highlands (5 marks)
- b) Discuss major constraints to fish production and marketing in Kenya (5 marks)
- c) Describe 2 features of an agro-ecological zone suitable for pig production in Nairobi (4 marks)
- d) Describe factors that have contributed to success of tilapia production in Kenya (6 marks)

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