



UNIVERSITY OF EMBU

2017/2018 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURE AND BACHELOR OF SCIENCE IN RANGE MANAGEMENT

AAS 201: PRINCIPLES OF ANIMAL PRODUCTION

DATE: APRIL 6, 2018

TIME: 11:00 AM – 1:00 PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

- a) Discuss the role of livestock production to mankind (5 marks)
- b) Describe the major livestock industries in Kenya (5 marks)
- c) There are two agro-ecological zones (AEZ) that are suitable for intensive dairy livestock production in Kenya. Name the AEZs and explain how they support intensive dairy production (4 marks)
- d) Explain why exotic dairy cattle but not exotic beef cattle are predominant in Kenya (4 marks)
- e) Discuss the effects of ambient temperature of animal reproduction (4 marks)
- f) The University of Embu Farm intends to import high yielding Friesian heifers from Netherlands. Discuss how you would advise the farm manager regarding such a decision (3 marks)

- g) During one of your farm practical lessons, the technician instructed you to slaughter a chicken. Illustrate the various internal organs you were able to observe and describe their functions. (5 marks)
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QUESTION TWO (20 MARKS)

- a) Discuss livestock production systems in rangelands of Kenya (10 marks)
- b) Describe the effect of nutrition (minerals, fats, vitamins, water carbohydrates and protein) on growth and development of livestock (10 marks)

QUESTION THREE (20 MARKS)

- a) Discuss effect of disease of parasites on animal growth and development (10 marks)
- b) Describe the general factors that predispose animals to diseases (10 marks)

QUESTION FOUR (20 MARKS)

- a) Describe the factors to consider when constructing an animal housing/structure (10 marks)
- b) Discuss the factors that affect pre- and post- weaning growth of animals (10 marks)

QUESTION FIVE (20 MARKS)

- a) As a technician in the University of Embu farm, discuss with agriculture students measures in place to prevent infection and transmission of animal diseases (10 marks)
- b) Compare and contrast organic farming and conservation agriculture in relation to agroecosystem management (10 marks)

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