



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN DRYLAND AGRICULTURE AND FOOD NUTRITION AND DIETETICS

ANS 202: PRINCIPLES OF ANIMAL PRODUCTION AND FUNCTIONS

DATE: 11TH APRIL, 2017

TIME: 1.30 - 3.30 PM

INSTRUCTIONS TO CANDIDATES

- Answer **ALL** Questions in section **A** and any **two** in section **B**
- Use appropriate illustrations and diagrams where possible.

SECTION A (30 Marks)

Q1 a) Using examples where possible, define the following terms:

- i) Animal agriculture (1 Mark)
- ii) Livestock production system (1 Mark)

b) Discuss the importance of domestication of livestock to man (2 Marks)

Q2 a) State any **four (4)** challenges affecting the animal agriculture sector in Kenya (4 Marks)

b) Assume that you are the director of livestock services in Kitui County, discuss briefly the mitigation measures you will implement to alleviate the challenges the livestock farmers are facing. (4 Marks)

Q3 a) Briefly discuss any **Four (4)** factors that determine the type of livestock production system (2 Marks)

b) Discuss any **Four (4)** animal factors that affect the production and performance of a livestock production system (2 marks)

- Q4 a) Briefly Explain how the external environment of an animal influences the performance and productivity of livestock in a farm (3 Marks)
- b) Highlight how internal structure of an animal affects its performance under the following
- i). Cells (1 Mark)
 - ii). Tissues (1 Mark)
 - iii). Organ system (1 Mark)
- Q5 a) Briefly discuss **Four (4)** causes of diseases in Livestock (2 Marks)
- b). Explain how herd structure influences health management in a modern livestock farm (3 Marks)
- c). Discuss how weaning practices influences performance of animals (3 Marks)

SECTION B (40 MARKS)

- Q6. a). Discuss the importance of animal agriculture in Kenya (10 Marks)
- b). Enumerate Ten (10) signs of ill-health in livestock (10 Marks)
- Q7 a) Discuss the **Five (5)** main basic principles of animal management for enhanced production (10 Marks)
- b). Describe the basic principles of disease control and prevention in livestock (10 Marks)
- Q8 a).Discuss the causes and control measures for infertility problems (8 Marks)
- b). Discuss the foot and mouth disease under the following headings:
- i). Aetiology (2 Marks)
 - ii). Causes (2 Marks)
 - iii). Clinical signs (5 Marks)
 - iv). Treatment and control (3 Marks)