



The Co-operative University of Kenya

END OF SEMESTER EXAMINATIONS APRIL-2019

EXAMINATION FOR THE DEGREE OF BACHELOR OF **AGRIBUSINESS**

MANAGEMENT

(YR IV SEM II)

UNIT CODE: BAFS 2111

UNIT TITLE: PRINCIPLES OF ANIMAL PRODUCTION

DATE: 22ND APRIL 2019

TIME: 9:00 AM – 11:00 AM

INSTRUCTIONS:

- Answer question **ONE (compulsory)** and any other **TWO** questions

QUESTION ONE

- (a) Define the following terms as used in animal production
- Ration (1 marks)
 - Inbreeding (2 marks)
 - Dry matter (2 marks)
 - Crude protein(2marks)
- (b) A pig farmer wish to compute a ration containing 16% protein using maize containing 11% and cereal balancer containing 36% protein. Use the Pearson's square method to determine the amount of maize and cereal balancer the farmer needs to make 100kg of such a ration. (7marks)
- (c) Name **two** diseases caused by virus and **two** by bacteria. In each case identify the causal organism, symptoms, treatment and control measures. (16 marks)

QUESTION TWO

- (a) With specific examples discuss the importance of livestock production record (12 Marks)
- (b) Explain the effects of the following on a breeding herd (8marks)
- Inbreeding
 - Outbreeding
 - Selection
 - Random mating

QUESTION THREE

- a) What are the basic differences between ruminants and non-ruminants (4 marks)
- b) Discuss the characteristics of a beef cattle (6 marks)
- c) With illustration discuss digestion of carbohydrates in a ruminant animal (10 marks)

QUESTION FOUR

- a) Discuss the **three** types of animal production systems in Kenya (5 marks)
- b) Discuss the role of animal production in Kenya (5 marks)
- c) State and explain signs of heat in a dairy cattle (5 marks)
- d) Describe the role of artificial insemination (5marks)

QUESTION FIVE

- (a) State **five** characteristics of dairy cattle. (5marks)
- (b) Outline the contents of the following production records (6 marks)
 - i) Farrowing records
 - ii) Litter record
- (c) Discuss the signs of ill-health in livestock animals (4marks)
- (d) Outline the causes of livestock diseases (5 marks)