



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

AHE 300: ANIMAL HEALTH AND DISEASES

DATE: 11/12/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Giving an example in each case, define the following terms in relation to domestic livestock diseases;
- Diagnosis (2 marks)
 - Control (2 marks)
 - Formites (2 marks)
 - Acute infection (2 marks)
 - Congestion (2 marks)
 - Nematode (2 marks)
 - Vector (2 marks)
- b) Discuss how bacterial pathogenic organism attacks a host leading to an infectious disease (4 marks)
- c) List the special sensory organs in a goat (2 marks)
- d) Outline four cardinal signs of inflammation (2 marks)
- e) A farmer in Machakos County has requested you to visit her farm for advisory services regarding dairy farming, explain five benefits you would give her why cows should always be mentained in healthy condition (5 marks)
- f) Describe any two diseases of pigs (2 marks)

- g) Define the meaning of TPR in relation to animal health (1 mark)

QUESTION TWO (20 MARKS)

- a) Discuss the nine physiological systems in a cow and name all component organs in each system (18 marks)
- b) Name any four diseases in livestock that can be controlled by vaccination (2 marks)

QUESTION THREE (20 MARKS)

- a) Discuss pediculosis under the following headings;
- i. Etiology (2 marks)
 - ii. Transmission (2 marks)
 - iii. Species affected (2 marks)
 - iv. Clinical signs (2 marks)
 - v. Diagnosis (2 marks)
- b) Discuss flea allergy dermatitis (FAD) under the following headings
- i. Etiology (2 marks)
 - ii. Species affected (2 marks)
 - iii. Pathogenesis (4 marks)
 - iv. Clinical signs (2 marks)

QUESTION FOUR (20 MARKS)

- a) Describe ways how ticks may cause injury to cattle (5 marks)
- b) Discuss the chemical method of tick control in livestock (5 marks)
- c) Discuss ECF (East Coast Fever) disease under the following headings
- i. Etiology (2 marks)
 - ii. Species affected (2 marks)
 - iii. Transmission (2 marks)
 - iv. Clinical signs (3 marks)
 - v. Diagnosis (1 mark)

QUESTION FIVE (20 MARKS)

- a) Discuss Ringworms infection under the following headings
 - i. Species affected (2 marks)
 - ii. Transmission (2 marks)
 - iii. Clinical signs (2 marks)
 - iv. Diagnosis (2 marks)
 - v. Treatment (2 marks)
- b) Explain 10 ways towards control of anthrax disease in livestock (10 marks)