



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

THIRD /FOURTH YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION AND EXTENSION)

BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

AHE 300: ANIMAL HEALTH AND DISEASES

DATE: 17/8/2021

TIME: 8.30-10.30 AM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Differentiate between the terms prevention, control and treatment as applied in animal health (6 marks)
- b) Explain five signs that you observe in healthy goats (10 marks)
- c) Explain the process how a virus infects a host leading to development of a disease (5 marks)
- d) Explain three forms of rabies disease signs in livestock (9 marks)

QUESTION TWO (20 MARKS)

- a) Explain seven physiological systems in a cow and name 1 component organ in each system (14 marks)
- b) Explain the principle behind vaccination in livestock (6 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) Explain how ticks cause injury to a cattle (5 marks)
- b) Discuss the chemical methods 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 (1 mark)
 - iii. Transmission (2 marks)
 - iv. Clinical signs (3 marks)
 - v. Diagnosis (2 marks)

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) State 10 ways towards control of anthrax disease in livestock (10 marks)