



# MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

DIPLOMA IN AGRICULTURAL EDUCATION AND EXTENSION

AHE 0300: ANIMAL HEALTH AND DISEASES

DATE: 17/8/2021

TIME: 8.30-10.30 AM

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## INSTRUCTIONS:

Answer question ONE and any other TWO questions

### QUESTION ONE (30 MARKS)

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

### QUESTION TWO (20 MARKS)

- Explain seven physiological systems in a cow and name 1 component organ in each system (14 marks)
- 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 five ways through which 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)