



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

THIRD YEAR FIRST SEMISTER EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AHE 300: ANIMAL HEALTH AND DISEASES

DATE:

TIME:

INSTRUCTIONS:

Answer question ONE and any other TWO questions in part B

SECTION A (30 MARKS)

QUESTION ONE (30 Marks)

- Explain the concepts prevention, control and treatment as applied in animal health.(6 marks)
- Outline five signs that are observed in healthy goats. (5 marks)
- Explain the process how a virus infects a host leading to development of a disease.(5 marks)
- Explain three forms of rabies disease signs in livestock. (9 marks)
- Explain five reasons why livestock should be kept healthy always. (5 marks)

SECTION B(40 MARKS)

QUESTION TWO (20 MARKS)

- Explain five physiological systems in a cow and name one component organ in each system (10 marks)
- Discuss the principle behind vaccination in livestock (6 marks)
- Explain four cardinal signs of inflammation (4 marks)

QUESTION THREE (20 MARKS)

- a) Discuss pediculosis under the following subheadings:
- i. Etiology (2 marks)
 - ii. Transmission (2 marks)
 - iii. Species affected (2 marks)
 - iv. Clinical signs (2 marks)
 - v. Diagnosis (2marks)
- b) Discuss flea allergy dermatitis (FAD) under the following subheadings:
- 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 cow (5 marks)
- b) Discuss the chemical methods of tick control in livestock (5 marks)
- c) Discuss East Coast Fever (ECF) disease under the following subheadings
- 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 subheadings
- i. Species affected (2 marks)
 - ii. Transmission (2 marks)
 - iii. Clinical signs (2 marks)
 - iv. Diagnosis (2marks)
 - v. Treatment (2 marks)
- b) Explain TEN methods of controlling anthrax disease in livestock (10 marks)