

# **MACHAKOS UNIVERSITY**

University Examinations for 2022/2023 Academic Year

# SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES DEPARTMENT OF AGRICULTURAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION AND EXTENSION)

**AHE 300: ANIMAL HEALTH AND DISEASES** 

DATE: TIME:

#### **INSTRUCTIONS:**

Answer question ONE and any other TWO questions

### **QUESTION ONE (COMPULSORY) (30 MARKS)**

- a) Differentiate the terms prevention, control and treatment as applied in animal health (3 marks)
- b) Explain four macroscopic features observed when examining whether cow urine or feces are normal (2 marks)

- c) Explain any four tick-borne diseases of cattle. (2 marks)
- d) Explain five signs that are observed in healthy goats (2.5 marks)
- e) Explain the process how a virus infects a host leading to development of a disease (3 marks)
- f) Explain the strategic control of helminths in livestock. (3 marks)
- g) Explain three forms of rabies disease signs in livestock (6 marks)
- h) Explain five reasons why livestock should be kept healthy always (2.5 marks)
- i) Explain three ways how flies contribute to disease spread in livestock (3 marks)
- j) Describe four vital parameters checked during examination of animals (2 marks)
- k) Name any two diseases that cause pox lesions in livestock. (1 mark)

## **QUESTION TWO (20 MARKS)**

a) Describe five physiological systems in a cow and name one component organ in each system (10 marks) b) Discuss the principle about vaccination in livestock (6 marks) c) Explain four cardinal signs of inflammation (4 marks) **QUESTION THREE (20 MARKS)** a) Discuss pediculosis under the following subheadings: i. Etiology (2 marks) Transmission (2 marks) ii. iii. Species affected (2 marks) Clinical signs (2 marks) iv. Diagnosis (2 marks) v. 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 five ways how ticks cause injury to livestock (5 marks) b) Discuss five chemical methods of tick control in livestock (5 marks) c) Discuss East Coast Fever (ECF) disease under the following subheadings i. Etiology (2 marks) Species affected (1 mark) ii. Transmission iii. (2 marks) Clinical signs (3 marks) iv. Diagnosis (2 marks) v. **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 (2 marks) v. Treatment (2 marks) b) Explain ten methods of controlling anthrax disease in livestock (10 marks)