

LAIKIPIA



UNIVERSITY

UNIVERSITY EXAMINATIONS

2ND SEMESTER 2023/2024 ACADEMIC YEAR

FOURTH YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION

AGED 424: INTRODUCTION TO ANIMAL DISEASES

STREAM: R

TIME: 2 HRS

DAY: THURSDAY (8.30-10.30AM) DATE: 11/4/24

THIS QUESTION PAPER CONSISTS OF THREE (3 PAGES)

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.



INSTRUCTIONS: Answer question **ONE** and any other **TWO** questions.

QUESTION ONE (30 MARKS)

- a. In your role as an animal health expert you often come across various terminologies related to livestock diseases. In this context, explain the following terminologies related to livestock diseases
- i. Disease (2mks)
 - ii. Vector (2mks)
 - iii. Epidemic (2mks)
- b) As a public health officer you have been tasked with educating a community about zoonotic diseases. Define what a zoonotic disease is, and provide three examples of zoonotic diseases. (6 mks)
- c) A farmer brings in a sick cow, suspecting it may have contracted East Coast Fever. In your response, outline the symptoms seen in an animal affected by East Coast Fever (6 mks)
- d) In the context of diagnosing and treating dairy animals, explain the etiology or causative organism, symptoms and treatment of any two viral diseases (6 mks)
- e) As a healthcare professional, describe acquired immunity and natural immunity, highlighting their key characteristics, mechanisms of action, and the circumstances in which each type of immunity is typically encountered. (6 mks)

QUESTION TWO (20 MARKS)

- a) Use 4 examples to illustrate how immunity plays a crucial role in managing the health of animals in your care (8 mks)
- b) Discuss three environmental factors that can impact the health status of animals. (6mks)
- c) Provide three examples of how the above mentioned factors in (b) can negatively influence the well-being of the animal population (6 mks)



QUESTION THREE (20 MARKS)

- a) Explain five methods for the control of livestock diseases (10mks)
- b) Discuss five ways of preventing further spread of the disease on the farm. (10 mks)

QUESTION FOUR (20 MARKS)

- a) In your role as a consultant, explain 4 ways livestock diseases can have a detrimental
- b) Provide 4 recommended mitigation strategies against livestock diseases (4 mks)
- c) As a veterinary consultant provide practical advice on Foot Rot and Blackquarter

diseases under the following sub-headings:

- i. Aetiology (4mks)
- ii. Symptoms (4mks)
- iii. Prevention (4mks)

QUESTION FIVE (20 MARKS)

- a) Highlight two specific ectoparasitic that commonly affect ruminants (2mks)
- b) Explain three effective methods for controlling ectoparasitic (6 mks)
- c) As a manager of a dairy cattle herd on a farm in Nyahururu, discuss six strategies that can be effectively used for disease prevention in your cattle herd. (12mks)

