

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FOURTH YEAR EXAMINATION FOR THE AWARD OF
DEGREE OF BACHELOR OF SCIENCE IN NATURAL RESOURCES MANAGEMENT
AND BACHELOR OF SCIENCE DEGREE IN WILDLIFE AND ENTERPRISE
MANAGEMENT**

WIEM 422: WILDLIFE DISESES AND PATHOLOGY

STREAMS: Y4S1

TIME: 2 HOURS

DAY/DATE : WEDNESDAY 22 /09/ 2021

2.30 PM – 4.30 PM

INSTRUCTIONS TO CANDIDATES:

- Answer ALL Questions in SECTION A and any other TWO in Section B.
- DO NOT WRITE ANYTHING on the question paper.

SECTION A (30 MARKS)

1. Explain four levels of disease infection. [4 Marks]
2. Briefly discuss how diseases may influence wildlife population dynamics. [6 Marks]
3. Briefly discuss ways in which climate change may influence the emergence or re-emergence of infectious zoonotic diseases. [5 Marks]
4. Describe the four components of diseases that are addressed in pathology. [4 Marks]
5. Briefly describe Heterodimer Model of propagation of prions [5 Marks]
6. Briefly explain your understanding of the Principle of ‘Ten Disc Spaces’ when reporting lesions on an animal’s body. [6 Marks]

SECTION B (40 MARKS)

7. Discuss the factors influencing transmission of infectious wildlife diseases.[20 Marks]
 8. Discuss the 'One Health Approach' in terms of importance and challenges.[20 Marks]
 9. Suppose you are studying the epidemiology of a given wildlife disease. Discuss the key issues you would seek to establish in the study. [20 Marks]
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