

CHUKA

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UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF  
SCIENCE IN WILDLIFE AND ENTERPRISE MANAGEMENT**

**WIEM 422: WILDLIFE DISEASES AND PATHOLOGY**

**STREAMS: BSc. WIEM (Y4S2)**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 09/04/2024**

**2.30 P.M. – 4.30 P.M.**

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**INSTRUCTIONS**

- **Answer all questions in section A and any two in section B**
- **Do not write on the question paper**

**SECTION A (30 Marks)**

1. Explain the four main components of disease that are addressed in pathology. (4 marks)
2. Briefly explain the meaning of the following pairs of terms: (6 marks)
  - a) Cylo-zoonosis and metazoonosis
  - b) Infection and infestation
  - c) Disease prevalence and disease incidence
3. Suppose you need to give a report on the epidemiology of a given zoonotic disease, outline five most relevant questions you would address in the report. (5 marks)
4. a) What is an emerging zoonotic disease? (2 marks)  
b) List three examples of emerging zoonotic diseases and the causative agent of each. (3 marks)
5. Briefly explain how climate change can influence the occurrence of infectious zoonotic diseases. (5 marks)

6. Briefly describe the signs of a domestic dog infected with rabies virus. (5 marks)

**SECTION B (40 Marks)**

7. a) Discuss the concept of 'one health', highlighting why it is important (8 marks)  
b) Discuss the general transmission cycle of infectious wildlife diseases. (12 marks)
8. Using examples, discuss the measures that should be taken to control and prevent infectious wildlife diseases. (20 marks)
9. Discuss ways through which wildlife managed in captivity may end up with infectious animal diseases. (20 marks)
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