

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS
EXAMINATION FOR THE AWARD OF THE CERTIFICATE IN HEALTH AND
PRODUCTION**

ANHE 00235 ZONOSSES AND ONE HEALTH CONCEPT

STREAMS: CERT ANHE

DAY/DATE: THURSDAY 07/08/2025

TIME: 2 HOURS

8.30A.M. –10.30 A.M

Instructions

SECTION A: ATTEMPT ALL QUESTIONS (40 MARKS)

QUESTION ONE (40 MARKS)

(a) Define the following terms:

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|-----------------------|-----------|
| (i) Anthroozoonoses | (2 Marks) |
| (ii) Zooanthroponoses | (2 Marks) |
| (iii) Amphixenoses | (2 Marks) |
| (iv) Reservoir | (1 Mark) |

(b) List five (5) risk factors influencing spread of zoonotic diseases (5 Marks)

(c) Explain the term “One Health Concept” (4 Marks)

(d) List four (4) challenges facing “one health” concept initiative (4 Marks)

(e) State five (5) economic impacts of zoonoses to Kenya (5 Marks)

(f) Highlight preventive vaccinations for human rabies (4 Marks)

(g) What reasons suggest that Coronavirus disease (COVID-19) could have originated from animals (3 Marks)

(h) State three (3) ways in which avian influenza virus can be introduced into Kenya (3 Marks)

(i) Highlight five (5) challenges facing control of Hydatidosis control in Kenya (5 Marks)

SECTION B: ATTEMPT ANY 2 QUESTIONS (30 MARKS)

QUESTION TWO

Discuss Leptospirosis in terms of:

- (a) Aetiology (1 Mark)
- (b) Three (3) means of transmission in humans (6 Marks)
- (c) Reservoirs of infection (3 Marks)
- (d) Control and prevention measures using one health approach (5 Marks)

QUESTION THREE

Leishmaniosis is a protozoal zoonosis. Discuss the disease under the following subtopics:

- (a) Aetiology (1 Mark)
- (b) Two (2) modes of transmission to man (2 Marks)
- (c) Risk factors associated with leishmaniosis (3 Marks)
- (d) Three (3) forms of the disease in humans (6 Marks)
- (e) Three (3) prevention and control strategies (3 Marks)

QUESTION FOUR

Discuss cysticercosis, under the following headings:

- (a) Aetiological and modes of transmission in man, cattle and pigs (3 Marks)
 - (b) Factors contributing to the spread of disease (4 Marks)
 - (c) Clinical signs observed in humans (4 Marks)
 - (d) Prevention and control measures (4 Marks)
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