

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE ANIMAL PRODUCTS PROCESSING TECHNOLOGY

ANHE 451: PUBLIC HEALTH, ZOOSES AND ENVIRONMENT

STREAMS: BSC. ANHE

TIME: 2 HOURS

DAY/DATE: MONDAY 14/04/2025

8.30 P.M. – 4.30 P.M.

INSTRUCTIONS

- Answer ALL questions in Section A and any TWO in section B

SECTION A (30 MARKS)

1. a. Define the following terms
 - i. Adulteration (2 Marks)
 - ii. Environmental Health (2 Marks)
 - iii. HACCP principle (1 Mark)
- b. Name any 5 Microbial zoonoses associated with animal products stating how they can be prevented (5 Marks)
2. b. Outline 4 opportunities in public health as an animal products expert (4 Marks)
- c. Outline three practices that can be done to prevent environmental contamination with animal products (3 Marks)
- c. Briefly describe how eggs may be examined for freshness (3 Marks)
3. a. Briefly explain sic chemical properties of water. (6 Marks)
- b. Describe the characteristics of putrefied fish (4 Marks)

SECTION B (40 MARKS)

4. a. Is Kirobia slaughter house in Chuka Town an ideal slaughtering facility? Support your answer (10 Marks)
- b. An outbreak of Hemorrhagic Enterocolitis is reported at Chuka university dispensary and you have been asked to design a study to investigate the risk factors of the disease among the student and staff population. Design this study and provide possible recommendations to the University management. (10 Marks)
5. Jecinta has been employed at the Export Processing Zone, in the wool grading section for a period of six months. She recently developed blisters on the skin that are itchy and swollen. She also has a fever, persistent cough and body aches.
- a. Provide a diagnosis for this condition (1 Mark)
- b. How is this disease diagnosed? (5 Marks)
- c. Explain how this disease is treated (4 Marks)
- d. Discuss the methods used to control this disease (4 Marks)
- e. Briefly explain three zoonoses that are associated with meat explaining how they are prevented (6 Marks)
6. a. Discuss five effects of marine pollution to public health (5 Marks)
- b. As an animal products expert, discuss five measures that you can do to reduce negative impacts to the environment (5 Mark)
- c. Discuss the residues in milk and their related hazards (10 marks)

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