



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

SPECIAL/SUPPLEMENTARY EXAMINATIONS
SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF
BACHELOR OF SCIENCE IN PUBLIC HEALTH
SECOND SEMESTER 2024/2025
[AUGUST, 2025]

PHES 223: ENTOMOLOGY, PEST & RODENT CONTROL

STREAM: Y2 S2

TIME: 2 HOURS

DAY: THURSDAY, 12:00 - 2:00 P.M.

DATE: 14/08/2025

INSTRUCTIONS:

- 1. Do not write anything on this question paper.**
- 2. Answer question ONE in section A (Compulsory) and any other TWO questions from section B.**

SECTION A: (30 MARKS)

1. Outline five features that enhance the suitability of *Musca domestica* as transmitters of enteric pathogens (5 marks)
2. With specific examples, list down four disease causing pathogens transmitted by mosquitoes (4 marks)
3. Explain briefly five features of habitat selection by snails (5 marks)
4. Highlight five important morphological features used to identify adult bedbugs (5 marks)
5. Explain briefly any three factors that influence the ability of a vector to transmit a disease causing agent (6 marks)
6. Outline five important control measures towards *Pediculus humanus corporis* (5 marks)
7. Explain briefly three roles played by rodents in zoonotic infections (6 marks)
8. Highlight any four ways of eliminating vermins of order Orthoptera (4 marks)

SECTION B: (30 MARKS)

9. Describe a generalized life cycle of ticks and control interventions (15 marks)
10. Describe the following anti-snail measures Environmental manipulation (7 marks)

Biological control

(8 marks)

11. Give a detailed account of community based control of mosquitoes

(15 marks)