



**AMREF INTERNATIONAL UNIVERSITY
UNIVERSITY EXAMINATIONS 2025
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
BSC COMMUNITY HEALTH
MAY 2026
SEMESTER EXAMINATION MAIN EXAM**

UNIT CODE: CHP 133

TIME :

START:

Instructions

UNIT NAME: MEDICAL ENTOMOLOGY

TWO (2) HOURS

STOP:

1. This paper has Sections A and B
2. Answer ALL questions in Section A
3. For Section B, answer any two (2) questions of your choice
4. Use the university examination booklets provided
5. Write your student registration number on all your answer sheets

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION. 30 Marks

Answer ALL questions. Each question carries 5 marks.

1. Outline how climate change may influence the distribution of disease vectors in Kenya
(5 Marks)
2. Highlight the difference between complete metamorphosis and incomplete metamorphosis, giving one example of an insect for each.
(5 Marks)
3. Outline five distinguishing morphological features of insects.
(5 Marks)
4. State five public health problems associated with ticks and mites.
(5 Marks)
5. Outline five control methods of lice.
(5 Marks)
6. Highlight five measures used in the prevention and control of flea infestations. (5 Marks)

SECTION B – ANSWER ANY TWO QUESTIONS (40 MARKS).

7.

A sub-county in western Kenya has reported a sharp increase in malaria cases despite widespread distribution of insecticide-treated nets. As the Community Health Officer:

a) Explain the possible entomological factors contributing to the continued transmission. (8 Marks)

b) Propose an Integrated Vector Management (IVM) plan to address the problem. (12 Marks)

8.

A rural community located near a national game reserve has reported increasing cases of Human African Trypanosomiasis (Sleeping Sickness).

a) Analyze the factors that may be contributing to the spread of this disease. (8 Marks)

b) Develop a community-based vector control programme to reduce the disease burden. (12 Marks)

9.

Following heavy rains and flooding, a district experiences outbreaks of vector-borne diseases. Discuss how environmental changes influence insect breeding and disease transmission, and recommend appropriate public health interventions that should be implemented before, during, and after the rainy season. (20 Marks)

END OF EXAMINATION