



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
DIPLOMA IN COMMUNITY HEALTH PRACTICE**

END OF SEMESTER EXAM MAY-AUGUST, 2026

UNIT CODE: DCHP 124

**UNIT NAME: Vector and Vermin Control
(Out of 60 Marks)**

**DURATION: 2 HOURS START:9AM FINISH:11AM
10TH AUGUST 2026**

Lecturer's Name: Mr. Benjamin Kioko

INSTRUCTIONS

- ✓ *Answer QUESTION ONE which is Compulsory and any other TWO questions of your choice from Section B.*

QUESTION ONE

- a) List FIVE Arthropods of Major Public Health Importance (2¹/₂marks)
- b) Mention FIVE Arthropod-Borne Diseases in Humans (2¹/₂marks)
- c) Highlight FIVE ways in which Communities support vector control (5marks)
- d) Outline FIVE challenges of integrated vector management (5marks)
- e) State FIVE Importance of Studying Arthropod Biology and Ecology (5marks)

SECTION B

QUESTION TWO

A Community Health Assistant conducting a household survey in Kijiji Village observes a high number of mosquitoes, cockroaches, houseflies, and rats around homes. Many residents report frequent cases of vector-borne diseases

- a) Using the scenario above, identify and explain **FIVE** mechanisms that enable arthropods to survive and thrive in the community environment. **(10 marks)**
- b) Based on the situation in Kijiji Village, evaluate **FIVE** factors that may be contributing to the increased vector and vermin infestation. **(10 marks)**

QUESTION THREE

Following an increase in malaria and other vector-borne diseases, the County Public Health Department plans to implement a comprehensive vector and vermin control programme in Umoja Village.

- a) As a public health officer, examine **FIVE** reasons why controlling vectors and vermin is important in this community **(10 marks)**
- b) Recommend and analyze **FIVE** principles of Integrated Vector Management (IVM) that should guide the control programme **(10 marks)**

QUESTION FOUR

Maji Mazuri Village has adopted an Integrated Vector Management (IVM) approach that combines environmental management, community participation, biological control, and selective use of insecticides.

- a) Evaluate **FIVE** advantages of using Integrated Vector Management in controlling vectors and vermin within the community **(10 marks)**
- b) During a health education session, community members ask how mosquitoes, fleas, ticks, and houseflies spread diseases. Examine **FIVE** mechanisms through which arthropods transmit diseases **(10 marks)**