



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
BACHELOR OF SCIENCE IN COMMUNITY HEALTH PRACTICE
END OF SEMESTER EXAMINATION APRIL 2024

UNIT CODE: CHP 133
UNIT NAME: ENTOMOLOGY
Date: 17th APRIL 2024
Time: 2 Hours **Start:** 4.30 PM **Stop:** 6.30 PM

INSTRUCTIONS

1. This exam is marked out of 70 marks
2. This Examination comprises TWO Sections
Section A: Compulsory Question (30 Marks)
Section B: Long Answer Questions (40 Marks)
3. All questions in Section A are compulsory and Answer any TWO questions in Section B
4. This online exam shall take 2 Hours
5. Late submission of the answers will not be accepted
6. Ensure your web-camera is on at all times during the examination period
7. No movement is allowed during the examination
8. Idling of your machine for 5 min or more will lead to lock out from the exam
9. Any aspect of cheating detected during and or after the exam administration will lead to nullification of your exam
10. In case you have any questions call the Head of Department on Tel +254720573449
For adverse incidences please write an email to: amiu.examinations@amref.ac.ke

SECTION A: SHORT ANSWER QUESTIONS: ANSWER ALL QUESTIONS (30 MARKS)

1. a) Highlight **four** medical conditions associated with arthropods (4 Marks)
b) Identify **four** shared attributes observed among arthropods (4 marks).
2. a) Outline four methods how arthropods carry disease causative agents (4 marks)
b) Highlight **four** effects of insects on man (4 Marks)
c) Outline with examples **four** vector control measures (4 marks)
3. Answer the following questions;
 - a) State four methods of controlling fleas (4 Marks)
 - b) Outline circulatory system of arthropods (4 Marks)
 - c) Identify four protozoa commonly encountered in immunocompromised populations. (4 Marks)

SECTION B: LONG ANSWER QUESTIONS: ANSWER ANY TWO QUESTIONS (40 MARKS)

4. Locust invaded Kenya from Ethiopia and Somalia in December 28, 2019. The locusts were in their immature stage. They have since matured and reported in 21 counties including Turkana County. The locust destroyed crops leaving farmers helpless. As a newly employed Medical Entomologist in that County, you are tasked to advise the CEC in charge of Agriculture on the following: -
 - A) Discuss possible prevention and control strategies for managing locust outbreaks, while also describing the general characteristics and life cycle of locusts to provide context for understanding effective intervention methods. (20 Marks)
5. Discuss the various strategies and approaches used to control mosquitoes responsible for transmitting malaria infection, describing their effectiveness, challenges, and potential impacts on public health. (20 marks)
6. Discuss and compare various methods utilized in vector control measures, describing their effectiveness, challenges, and potential impact on public health. (20 marks)