

**TECHNICAL UNIVERSITY OF MOMBASA**  
**FACULTY OF APPLIED AND HEALTH SCIENCES**  
**DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY**  
**HEALTH AND HIV MANAGEMENT**  
**DCH 16M/YEAR 3/ SEMESTER 1**  
**APH 2107 ENTOMOLOGY, PEST AND VECTOR CONTROL**

**END OF SEMESTER EXAMINATION**

**SERIES: DECEMBER 2016**

**TIME: 2 HOURS**

**DATE: Pick Date Dec 2016**

**Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** Question(s). Attempt question ONE (Compulsory) and any other TWO questions.

**QUESTION ONE**

- a) Explain the success of insects ecologically and their high numbers. (4 marks)
- b) Describe the Sealing up of entry holes as a strategy for rodents control (4 marks)
- c) There is a Global resurgence of bedbug menace. Describe the modern approaches for control and prevention by developed countries. (5 marks)
- d) Outline four Medical importance of sand flies (4 marks)
- e) Explain how forensic entomologists use the Flesh-flies in their crime investigation. (4 marks)
- f) Describe the biological transmission of trypanosomes by tsetse flies (4 marks)
- g) Explain simple hygienic measures for control of human fleas (5 mark)

## **QUESTION TWO**

As a public health officer suggest the control and prevention of the following:

- i. Head lice (7 marks)
- ii. Jigger fleas (8 marks)

## **QUESTION THREE**

- a) As a public health officer suggest ways of detecting bed bug infestations (7 marks)
- b) Explain food source isolation as a strategy for bedbug control (8 marks)

## **QUESTION FOUR**

- (a) Public Health Importance of rodents includes transmission of Rodent-borne Diseases. Describe how their causative agents could enter the human body.8 marks)
- (b) Briefly outline the special features of rodents (7 marks)

## **QUESTION FIVE**

Discuss measures for Prevention of the following

- a. ticks (8 marks)
- b. mites (7 marks)