



TECHNICAL UNIVERISTRY OF MOMBASA

# Faculty of Applied & Health Sciences

DEPARTMENT OF ENVIRONMENTAL & HEALTH SCIENCES

DIPLOMA IN COMMUNITY HEALTH (DCH 12S, 13J & 14M)

**APH 2107: ENTOMOLOGY VECTOR & PEST CONTROL**

END OF SEMESTER EXAMINATION

**SERIES: DECEMBER 2014**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Attempt question **ONE (Compulsory)** and any other **TWO** questions  
Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

**Question One (Compulsory)**

- a) Outline the importance of insects to the ecology (5 marks)
- b) Describe the use of natural enemies as a way of rodent control (4 marks)
- c) List some of the common rodent-borne diseases. (4 marks)
- d) Suggest the preventive measures for jigger attack (5 marks)
- e) Describe the link between jigger infestation and HIV/AIDS (4 marks)
- f) Explain how forensic entomologists may use the flesh flies in their crime investigation (4 marks)
- g) Describe the mechanical transmission of trypanosomes by tsetse flies (4 marks)

**Question Two**

- a) Outline the precautionary measures one should undertake while travelling to avoid bedbug infestation. (6 marks)
- b) Suggest the control measures for head louse (5 marks)
- c) Outline the medical importance of sand flies (4 marks)

**Question Three**

- a) Describe possible ways one may get infested with bedbugs (5 marks)
- b) Outline the effect of jigger attack (5 marks)
- c) State how causative agents transmitted by rodents may enter the human body (5 marks)

**Question Four**

- a) Discuss the control and management of tsetse flies (8 marks)
- b) Discuss measures for prevention of ticks. (7 marks)

**Question Five**

- a) Discuss the medical importance of blow flies (7 marks)
- b) Describe food source isolation as strategy for bedbug control (8 marks)