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**TECHNICAL UNIVERSITY OF MOMBASA**

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FACULTY OF APPLIED AND HEALTH SCIENCES  
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES  
**UNIVERSITY EXAMINATION FOR:**  
**DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT**  
**DCHM 16S/YEAR 1/ SEMESTER 2**  
**APH 2107: ENTOMOLOGY, PEST AND VECTOR CONTROL**  
**END OF SEMESTER EXAMINATION**  
**SERIES: JULY 2017**  
**TIME: 2 HOURS**

*Instructions to Candidates*

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions

*This paper consists of two printed pages.*

*Mobile phones are NOT allowed in the examination room*

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**Question ONE**

- Describe the use of Natural enemies as a way of rodent control (4 marks)
- List some of the common rodent-borne diseases (4 marks)
- Describe ways in which arthropods become medical important (5 marks)
- Describe the Link between jigger infestation and HIV/AIDS (4 marks)
- Outline the Effects of jigger attack (4 marks)
- State how causative agents transmitted by rodents may enter the human body (5 marks)
- Describe the clinical types of plague transmitted by human flea (4 marks)

**QUESTION TWO**

- Medical importance of blow flies (5 marks)
- Describe Food source isolation as strategy for bedbug control (10 marks)

**QUESTION THREE**

- Infestations with bedbugs may occur through a various ways. Discuss with special reference to incidents reported at our institution. (10 marks)
- There is a Global resurgence of bedbug menace. Describe the modern approaches for control and prevention by developed countries. (5 marks)

#### **QUESTION FOUR**

- a) Fleas may cause plague; as a public health worker suggest preventive and control measures for plague in the community (5 marks)
- b) Respected national leaders have shown interest in jigger flea infestation management; Give your advice on best control measures (10 marks)

#### **QUESTION FIVE**

Discuss jigger attack under the following headings

- (a) Effects of the attack (10marks)
- (b) Preventive measures (5 marks)