

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR
OF SCIENCE IN BIOMEDICAL SCIENCE**

BMET 230: MEDICAL AND VETERINARY ENTOMOLOGY

STREAMS: BSC (BMET)

TIME: 2 HOURS

DAY/DATE: FRIDAY 07/12/2018

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- **Answer question ONE and any other TWO questions**
- **Do not write on the question paper**

QUESTION ONE (30 MARKS)

- Outline the economic importance of insects [5 marks]
- Describe in detail the family Cimicidae of the Order Heteroptera [5 marks]
- Explain in detail the development cycle and bio-ecology of the triatomite bug [5 marks]
- Briefly state the general characteristics of the Class Insecta [5 marks]
- Highlight the measures that can be applied to control insects [5 marks]
- Using the grasshopper as an example, describe the circulatory and excretory system of the insects in the Class Insecta [5 marks]

QUESTION TWO (20 MARKS)

- Give a detailed explanation of the life cycle and medical and veterinary importance of the sand fly [10 marks]
- Explain in detail traditional and modern repellants as used to control mosquito [10 marks]

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QUESTION THREE (20 MARKS)

- (a) Explain in detail the development cycle and bio ecology of the mosquito [10 marks]
- (b) Describe the types of Metamorphosis that occur in insects [10 marks]

QUESTION FOUR (20 MARKS)

- (a) Give a detailed explanation of the public health importance of the tsetse fly [10 marks]
 - (b) Describe the advantages and disadvantages of using mosquito larvicidal oils [10 marks]
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