

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE (BIOMEDICAL SCIENCE)**

BMED 230: MEDICAL AND VETERINARY ENTOMOLOGY

STREAMS: BSC (BIOMED) Y2S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 06/12/2017

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- **ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**
- **DO NOT WRITE ON THE QUESTION PAPER**

QUESTION ONE (30 MARKS)

- What is the medical and veterinary importance of anoplura (lice). [6 marks]
- Describe in detail the family Cimicidae of the order Heteroptera. [6 marks]
- Explain in detail the development cycle and bio-ecology of the triatomite bug. [8 marks]
- Briefly state the general characteristics of the class insecta. [5 marks]
- Elimination of larvae is one of the ways to control insect breeding. Explain how it can be achieved. [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 detail traditional and modern repellants as used to control mosquito. [10 marks]

QUESTION THREE (20 MARKS)

- Explain in detail the development cycle and bio ecology of the mosquito. [10 marks]
- Metamorphosis occurs in all insects. But the process differs from insect to insect elucidate. [10 marks]

QUESTION FOUR (20 MARKS)

- (a) Give a detailed explanation of the development cycle and medical and veterinary importance of the tsetse fly. [10 marks]
- (b) Explain in detail the morphology and systematic of the family simuliidae (sand flies). [10 marks]
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