#### **CHUKA UNIVERSITY**

# SECOND YEAR EXAMINATION BMET 230 : MEDICAL AND VETERINARY ENTOMOLOGY

## STREAM: Y2S1BSc. BIOMEDICAL SCIENCE

TIME: 2 HOURS

#### **INSTRUCTIONS**

- i. Answer Question One and any other Two Questions
- ii. Do not write on the question paper

#### Question One (30 marks)

- a. Briefly discuss the four orders found in the class insecta. (4 marks)
- b. Describe in detail the family Cimicidae of the order of the order Heteroptera.

(6 marks)

- c. Discuss in detail any 4 medical conditions related to arthropods. (8 marks)
- d. Briefly state the general characteristics of the class Insecta. (5 marks)
- e. Elimination of larvae is one of the ways to control insect breeding. Explain how it can be achieved. (5marks)

#### Question Two (20 marks)

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

#### **Question Three (20 marks)**

a. Explain in detail the development cycle and bio ecology of the mosquito (10 marks)

b. 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 developmental 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)