

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE IN MEDICAL SCIENCE**

BMET 230: MEDICAL AND VETERINARY ENTOMOLOGY

STREAMS: Y2 S1 BSc. BIOMEDICAL SCIENCE

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 24/3/2021

8.30 AM – 10.30 AM

INSTRUCTIONS:

- Answer question ONE (Compulsory) and any other TWO questions.
- Do not write on the question paper

Question One (30 Marks)

- Briefly explain the direct effects of arthropods. [5 Marks]
- Highlight any four types of biological carriers. [4 Marks]
- Discuss the medical and veterinary importance of insects in the order Siphonaptera. [7 Marks]
- Describe the morphology and systemics of a mosquito. [6 Marks]
- Outline the advantages and disadvantages of using traditional repellants to control insect bits. [5 Marks]
- Briefly discuss the medical and veterinary importance of Anoplura. [3 Marks]

Question Two (20 Marks)

- Describe the biology of arthropods. [10 Marks]
- There are several medical conditions related to arthropods. Discuss. [10 Marks]

Question Three (20 Marks]

- a. With regard to growth and development insects can be divided into four groups. Discuss. [10 Marks]
- b. The tsetse flies belong to Oder Diptera. Discuss its developmental cycle, bioecology and medical importance. [10 Marks]

Question Four (20 Marks]

- a. Preventing the breeding of mosquito and development of larva is an effective way of controlling diseases transmitted by mosquito. Discuss. [10 Marks]
- b. Discuss the circulatory, respiratory and excretory system of the grasshopper as a member of the class insect. [10 Marks]
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