

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY **SCHOOL OF HEALTH SCIENCES**

UNIVERSITY EXAMINATION FOR MASTER OF BIOMEDICAL SCIENCES (PARASITOLOGY)

1st YEAR 2nd SEMESTER 2023/2024 ACADEMIC YEAR **KISUMUCAMPUS**

COURSE CODE: HME 5122:

COURSE TITLE: CONTROL OF INSECTS AND VECTORS OF MEDICAL

IMPORTANCE

EXAM VENUE:

DATE:

TIME: 3.00 HOURS

Instructions:

1. Question 1 is compulsory then answer any other 3 the questions.

- 1. Answer all questions here (COMPULSORY)
 - a) Discuss the intricate dance between form and function: How mosquitoes' features can guide control strategies (5 marks).
 - b) Explore the potential role of climate change in altering the geographical distribution and transmission dynamics of vector-borne diseases and its implications for control strategies (5 marks).
 - c) Discuss the significance of controlling insects and vectors of medical importance in public health and impact of vector-borne diseases on human populations and the environment (5 marks)

Answer any 3 questions

- Discuss the Four-Tiered Integrated Pest Management Implementation
 Approach (15 marks).
- 3. Discuss traditional methods of vector control (15 marks
- 4. Discuss modern methods of vector control (15 marks).
- 5. Discuss limitations of insecticides (15 marks)
- 6. Discuss use of Wolbachia in Vector control (15 marks).