



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR MASTER'S IN PUBLIC HEALTH AND
MASTER OF BIOMEDICAL SCIENCES (MEDICAL ENTOMOLOGY)
1st YEAR 2nd SEMESTER 2023/2024 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: HME 5125

COURSE TITLE: HME 5125: VECTOR SAMPLING, IDENTIFICATION AND INCRIMINATION

EXAM VENUE:

DATE:

TIME: 3.00 HOURS

Instructions:

- 1. Question 1 is compulsory then answer any other THREE the questions.**

1. Answer all questions here (COMPULSORY 15 MARKS)

- a) Describe the methods for mosquito identification.
 - i) Morphological methods (2 marks)
 - ii) Cytotaxonomy (2 marks)
 - iii) Molecular methods (2 marks)
- b) Describe the factors that affect malaria transmission (8 marks)
- c) How would you sample for adults *Aedes* mosquitoes (1 mark)

Answer any 3 questions

- 2. Describe
 - i) Different larval sampling methods and how to collect larvae (8 marks)
 - ii). How to assess larval densities and breeding site occupations (7 marks)
- 3. Describe the methods of collection of adult mosquitoes (15 marks)
- 4. Describe the Malaria vectors in Africa, Americas and Asia (15 marks)
- 5. Describe the methods for the incrimination of insects as potential vectors of human pathogens (15 marks).