

**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
BSC. COMMUNITY HEALTH & DEVELOPMENT/ BSC. PUBLIC HEALTH
HCD 3227: MEDICAL ENTOMOLOGY
YEAR THREE 1ST SEMESTER EXAMINATION**

Section A: Answer ALL questions (30 marks)

1. Why do some vectors take blood from a host (3 marks)
2. List 2 cues that will attract vectors to their host (2 marks)
3. What is a half-gravid vector (2 marks)
4. Mention 4 factors that the transmission of a disease will have to be dependent upon (4 marks)
5. Define Entomological Inoculation Rate and the Vectorial capacity of a vector (4 marks)
6. Distinguish between complete and incomplete metamorphosis giving examples for each (5 marks)
7. With respect to their behavior, what method will you use to sample the following vectors and why?
 - (i) Blackflies (3 marks)
 - (ii) Aedes mosquitoes (3 marks)
 - (iii) Tsetseflies (3 marks)

Section B: Answer ANY TWO Questions (20 marks each).

1. Discuss vector behavior with reference to their feeding and resting behaviour
2. Briefly discuss how the anatomy of some named vectors adapt them to their survival and disease transmission
3. Name the vector that transmit the following disease and discuss how each of the vectors could be controlled
 - (i) Dengue fever
 - (ii) Onchocerciasis
 - (iii) Tsetsefly
 - (iv) Trachoma
 - (v) Schistosomiasis
4. Discuss how you would identify, record and label their details, ship and preserve sample of vectors collected in the field