



**JARAMOGI OGINGA ODONGA UNIVERSITY OF SCIENCE  
AND TECHNOLOGY  
UNIVERSITY EXAMINATIONS 2012/2013  
2<sup>ND</sup> YEAR 2<sup>ND</sup> SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BSC. PUBLIC HEALTH  
(KISII LEARNING CENTRE)**

**COURSE CODE: HPD 3227**

**COURSE TITLE: MEDICAL ENTOMOLOGY**

**DATE: 21/4/2013**

**TIME: 9.00-11.00AM**

**DURATION: 1.5 HOURS**

**INSTRUCTIONS**

- 1. This paper contains TWO sections.**
- 2. Answer ALL questions in section A (Compulsory) and ANY other Two questions in section B.**
- 3. Write all answers in the booklet provided**

Q1. a). Define the following terms. (8mks)

- i). Arbo viruses
- ii). Vector(s)
- iii). Medical Entomology
- iv). Mechanical vectors

b). Carefully study the table below and fill every empty box as appropriate. 12mks

<b>Vector</b>	<b>Diseases</b>	<b>Mechanism</b>
1. Housefly	Diarrhoeal diseases, polio, worms, food poisoning, infective hepatitis	.....
2. ....	Malaria, yellow fever, filariasis, dengue fever	Biological
3.	Typhus fever, relapsing fever, dermatitis	.....
4. Mite	.....	Biological
5. Flea	Plague, murine typhus/endemic typhus	Biological
6. ....	Leishmaniasis	Biological
7. Blackfly	.....	Biological
8. Bedbug	Dermatitis, Chagas disease	Biological
9. Cyclops	Guinea worm, fish tapeworm	.....
10. Tsetse fly	.....	Biological
11. ....	Schistosomiasis	Biological
12. Dog	.....	Biological

c). list 5 common identification Characteristics shared by all Arthropods (10mks)

Q2. a). outline 5 ways in which lice are disseminated (methods of transfer of lice). 5mks

b). List 5 ways of controlling lice (5mks)

c). outline 5 ways of Controlling fleas. (5mks)

d). With specific reference to habit list the major methods used to the control of bed bugs. 5mks

Q3. Discuss Malaria Control (20mks)

Q4 Describe the burden of vector borne diseases on human population (20mks.)

Q5 write short notes as pertains to general collection, identification, labeling and preservation of arthropods under the following subtopics. 20mks

- i) Temporary preservation and storing (5mks)
- ii) Transportation from the field to the laboratory (5mks)
- iii) Mounting (5mks)
- iv) Taxonomic identification (5mks)
- v) Preservation (5mks)