



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE IN COMMUNITY HEALTH AND
DEVELOPMENT
2ND YEAR 2ND SEMESTER 2018/2019
KISUMU LEARNING CENTRE**

COURSE CODE: HCD 3227

**COURSE TITLE: MEDICAL AND VETERINARY
ENTOMOLOGY AND PARASITOLOGY**

EXAM VENUE: STREAM:

DATE: EXAM SESSION

TIME: 1.5 HOURS

Instructions:

- 1. Answer all questions in Section A and any other 2 questions in Section B**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

SECTION A: ANSWER ALL QUESTIONS (30MARKS)

1. Define the following terms and in each case name a parasite that is transmitted through that mechanism (2marks)
 - a) Active transmission
 - b) Passive transmission
2. Name any three vectors of medical importance and state the parasite transmitted by each of the named vector (3marks)
3. What are the drugs of choice used to treat the following infections (4marks)
 - a. Amebiosis
 - b. Bilharzia
 - c. Kala-azar
 - d. River blindness
4. List the clinical manifestations of complicated malaria (3marks)
5. Describe larval migration of *Ancylostoma duodenale* (3marks)
6. List 3 methods you would use to collect the vectors of *Plasmodium falciparum* (3marks).
7. Blood is one of the important specimens collected for the diagnosis of parasitic protozoa. Name any three parasitic protozoa you would diagnose using a blood sample. (3marks)
8. List any three ways in which hosts protect themselves from parasitic invasion (3marks)
9. Describe ways you would use to control Cysticercosis (3marks)
10. List any methods that you can use to **control** *Schistosoma mansoni* (3marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40MARKS)

1. Discuss
 - a. *Wuchereria bancrofti* in respect to its modes of transmission, vectors, clinical manifestations and its treatment and control (8marks)
 - b. The clinical manifestations of Leishmaniasis (12marks)
2. Discuss all methods used in diagnosis of parasitic infections, giving examples of parasites you would diagnose in each method. (20marks)

3. Discuss
 - a. The terms complete and incomplete metamorphosis, giving examples of the insects that undergo these stages (10marks)
 - b. Discuss all the morphological parts of the malaria vectors and how they are adapted to aid in disease transmission (10marks)
4. Discuss how parasites have adapted to parasitic lifestyles (20marks)