



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

UNIVERSITY EXAMINATION FOR CERTIFICATE COURSE IN COMMUNITY HEALTH AND DEVELOPMENT

1ST YEAR 1ST SEMESTER 2024/2025 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: HCD 1112

COURSE TITLE: INTRODUCTION TO INVERTEBRATES OF MEDICAL IMPORTANCE

EXAM VENUE:

STREAM: (CERT Comm Health & Dev)

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

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

SECTION "A" (30MARKS) ANSWER ALL QUESTIONS

- 1.State the meaning of the following terms (4 Marks)
- a) Definitive host
 - b) Facultative parasite
 - c) Reservoir host
 - d) Intermediate host
2. Define the following terms as used in parasitology (3 Marks)
- a) Parasitism
 - b) Commensalism
 - c) Mutualism
3. List THREE major classes of Helminthes (3 Marks)
4. State FOUR genus of Mastigophora (Flagellates) (4 Marks)
- 5.Outline the pathogenesis of *Giardia lamblia* (4 Marks)
- 6.State FOUR distinguishing characteristics of *Entamoeba histolitica* (4 Marks)
7. Give an example of one parasite that is transmitted by the following routes
- a) Congenitally (1 Mark)
 - b) Sexual contact (1 Mark)
 - c) Association with domestic animals (1 Mark)
8. State TWO ways of controlling *Ascaris lumbricoides* (2 Marks)
9. State the medical importance of the following
- a) Ticks (1 Mark)
 - b) Blackflies (1 Mark)
 - c) *Aedes* mosquito (1 Mark)

SECTION B: ESSAY (40MARKS)

1. Describe the nature and life cycle of *Trypanosoma ssp.* (20 Marks)
2. Explain the g importance of parasites (20 Marks)
3. Describe *Plasmodium* under the following:
 - a) Life cycle (10 Marks)
 - b) Symptoms of the disease (5 Marks)
 - c) Prevention (5 Marks)
4. A) Describe the life cycle of *Leshmania ssp* (10 Marks)
b) Discuss THREE clinical diseases of *Leshmania* (10 Marks)

5. Describe the nature, symptoms or complications of the following bilharzia worms
 - a) *Schistosoma haematobium* (10 Marks)
 - b) *Schistosoma mansoni* (10 Marks)