



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR THE DIPLOMA IN COMMUNITY HEALTH AND
DEVELOPMENT**

1ST YEAR 1ST SEMESTER 2023/2024 ACADEMIC YEAR

KISUMU CAMPUS

COURSE CODE: HCD 2114

COURSE TITLE: INTRODUCTION TO MEDICAL PARASITOLOGY

EXAM VENUE:

STREAM

DATE:

EXAM SESSION:

TIME:

1.30 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 THE QUESTIONS IN THIS SECTION (30 MKS)

1. Define; (3 mks)
 - a. Soil transmitted helminths
 - b. Hematophagous arthropods
 - c. Gravid proglottids
2. Differentiate between;
 - a. Intermediate host and definitive host (3 mks)
 - b. Parasites and hosts
 - c. Direct and indirect life cycles
3. State THREE prevention and control measures of Ascariasis (3 mks)
4. State TWO species of hookworms that infect man (2mks)
5. State the infective forms of the following parasites; (3 mks)
 - a. *Fasciola hepatica*
 - b. *Strongyloides stercoralis*
 - c. *Echinococcus granulosus*
6. State the modes of transmission of the following pathogens; (3 mks)
 - a. *Paragonimus westarnami*
 - b. Hookworms
 - c. *Enterobius vermicularis*
7. State TWO specimens used in the diagnosis of schistosomiasis (2 mks)
8. State the medical importance of the following arthropods ;(3 mks)
 - a. Housefly
 - b. Bedbugs
 - c. Horseflies
9. Name the two mosquito species that transmit Lymphatic filariasis in Africa (2 mks)
10. State TWO species of *Trypanosoma* causing African trypanosomiasis in man (2mks)
11. State the World Health Organization approved diagnostic methods for the following parasites; (2 mks)
 - a. *Plasmodium falciparum*
 - b. *Schistosoma mansoni*
12. State TWO methods of controlling jiggers infestation in Kenya (2 mks)

SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION (40 MKS)

1. Discuss the life cycle, clinical manifestation, diagnosis, prevention and control of *Taenia saginata* (15 mks)
2. Describe the mode of transmission, life cycle, clinical manifestation, prevention and control of infection by *Schistosoma mansoni* (15 mks)
3. a. Discuss on THREE specimens used in the diagnosis of parasitic infections (6 mks)
b. Describe the mode of transmission, life cycle and prevention and control of *Balantidium coli* (9 mks)
4. Describe the mode of transmission, lifecycle of the malaria parasite in both the definitive and intermediate host and the malaria prevention and control strategies (15 mks)