



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 2023/2024 ACADEMIC YEAR

KISUMU CAMPUS

COURSE CODE: HCB 2208

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

EXAM VENUE:

STREAM

DATE:

EXAM SESSION:

TIME:

2.00 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 IN THIS SECTION (30 MKS)

1. Distinguish between; (4 mks)
 - a) Class insect and arachnida
 - b) Cercariae and cysticerci
 - c) Infestation and infection
 - d) Encystation and excystation
2. State the Leishmania species and their clinical conditions (3 mks)
3. State personal prophylactic measures against hematophagous arthropods (3 mks)
4. Name the etiologic agents of the following diseases; (3mks)
 - a) Onchocercosis
 - b) Strongyloidiasis
 - c) Babesiosis
5. Differentiate between;
 - a) Taeniasis and cysticercosis (2 mks)
 - b) *Ascaris lumbricoides* and *Entamoeba histolytica* (2 mks)
 - c) African trypanosomiasis and American trypanosomiasis (2mks)
6. State the mode of transmission of the following; (3 mks)
 - a) *Dracunculus medinensis*
 - b) *Toxoplasma gondii*
 - c) *Balantidium coli*
7. State THREE prevention and control strategies for enterobiasis in humans (3mks)
8. Highlight TWO laboratory diagnostic approaches for *Plasmodium falciparum* (2 mks)
9. List THREE species of lice that infect humans (3 mks)

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

1. Discuss the causative agent, mode of infection, risk factors, public health importance, prevention and control of tungiasis in Kenya (20 mks)
2. a. Discuss the mode of transmission, adaptations, distribution, life cycle, symptoms, treatment, prevention and control of *hookworm* infection (15 mks)
b. Briefly discuss on the preventive strategies for vectored parasites (5mks)

3. a. Discuss the etiological agents, mode of transmission, life cycle, prevention strategies for African trypanosomiasis (11 mks)
- b. Briefly discuss the mode of transmission, prevention and control of *Onchocerca volvulus* (9 mks)
4. a. Discuss on the adaptations, mode of transmission, life cycle, symptoms, prevention and control of *Fasciola hepatica* (15 mks)
- b. Briefly describe the life cycle of *Plasmodium falciparum* in the intermediate host (5 mks)