

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

UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE PUBLIC &COMMUNITY HEALTH AND DEVELOPMENT 1ST YEAR 2ND SEMESTER 2023/2024 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: HCB 1106

COURSE TITLE: ENVIRONMENTAL HEALTH PARASITOLOGY

EXAM VENUE: STREAM: (BSc Env. Health)

DATE: EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A each contain 3 marks and ANY other two questions in Section B each contain 20 marks.
- 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 (30 marks)

1.	Outline Apicomplexa of public health im	nportance according to location of attack in the hu	ıman
	host.	((3 marks)

- 2. Define the following terms:
 - a. Hepatosplenomegaly (1/2 mark)
 - b. Paratenic host (1/2 mark)
 - c. Metacyclic trypomastigotes (1/2 mark)
 - d. Congenital infection (1/2 mark)
 - e. Longitudinal binary fission (1/2 mark)
 - f. Malabsorption syndrome (1/2 mark)
- State changes in THREE forms which occur during the life cycle of Entamoeba histolytica. (3 marks)
- 4. Which are the main forms and habitat in the life cycle of *Giardia lamblia*. (3 marks)
- 5. Describe the pathogenesis of *Trichomonas vaginalis*. (3 marks)
- 6. State the scientific names of THREE principal vectors of *Trypanosoma brucei rhodesiense* in East and Central Africa. (3 marks)
- 7. Distinguish between Erythrocytic and Sporogonic cycles in malaria transmission. (3 marks)
- 8. Give THREE host examples of *Balantidium coli*. (3 marks)
- 9. Name THREE major host habitats of Nematodes of medical importance. (3 marks)
- 10. Which are the THREE species of parasitic lice of humans? Include full scientific names. (3 marks)

SECTION B (40 Marks)

- 11. Compare the different morphologies of malarial parasites and their impact on malaria diagnosis.(20 marks)
- 12. Describe the major Leishmania species and their public health menace worldwide. (20 marks)
- 13. Give an account of an example zoonosis and how it can be managed to prevent, control, andtreat the diseases they may transmit to humans. (20 marks)
- 14. Discuss arthropods that infest domestic animals and strategies to control them. (20 marks)