



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE &
TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013**

**3RD YEAR 1ST SEMESTER EXAMINATION IN BACHELOR OF
SCIENCE, COMMUNITY & PUBLIC HEALTH
DEVELOPMENT**

(BUSIA)

COURSE CODE: HCD 3316

COURSE TITLE: MEDICAL AND VETERINARY PARASITOLOGY

DATE: 16/8/13

TIME: 9.00 -11 .00AM

DURATION: 2 HOURS

INSTRUCTIONS

- 1. This paper contains five (5) questions.**
- 2. Answer question 1 (compulsory) and ANY other TWO questions.**
- 3. Write all answer in the booklet provided.**

Section A: Answer ALL questions (30 marks)

1. With respect to parasitism explain the following:
 - (i) Intermediate host (2 marks)
 - (ii) Definitive host and (2 marks)
 - (iii) Paratenic host (2 marks)
2. With an example, name any 3 common modes of transmission of parasites (3 marks)
3. Distinguish between virulence and pathogenicity. (3 marks)
4. Differentiate the life cycles and infections with *Trypanosoma gambiense* and *T. rhodesiense*. (6 marks)
5. Which stage of the life cycle of a named cestode will be found in faeces during diagnosis. (3 marks)
6. Give **two** examples each of intestinal and blood protozoans. (4 marks)
7. Discuss briefly the life cycle of *Ascaris lumbricoides*. (5 marks)

Section B: Answer ANY TWO Questions (40 marks).

1. (i) Discuss how the life cycle of *Plasmodium falciparum* influence the treatment of malaria disease. (10 marks)

(ii) Discuss the different forms of the diagnosis of *Plasmodium falciparum* for both uncomplicated malaria and severe malaria. (10 marks)
2. Discuss briefly the life cycles, symptoms of their infection, diagnosis and prevention of the following parasites *Trichuris trichiura*, *Fasciola hepatica*. (20 marks)
3. Discuss the life cycle of *Taenia signata* and *Taenia solium* with regards to their transmission, diagnosis, control and prevention. (20 marks)
4. Discuss how parasites have adapted to their parasitic lifestyle. (20 marks)