



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICAL AND ACTUARIAL
SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
SCIENCE AND BACHELOR OF BIOLOGICAL SCIENCES

4th YEAR 2nd SEMESTER 2024/2025 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE: SBB 1416

COURSE TITLE: PARASITOLOGY

EXAM VENUE: ZOOLAB STREAM: BSC BIOLOGICAL SCIENCES

DATE:14/4/25 EXAM SESSION:15-17.00 HRS

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in Section A and Any two questions 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**
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SECTION A (30 Marks) Answer all questions

1. Using examples, differentiate between indirect and direct lifecycle (3 mark)
2. Distinguish between amastigote, promastigote, epimastigote and trypomastigote (3 marks)
3. Describe any three general characteristics of trematodes (3 marks)
4. Using examples, distinguish between oviparous, viviparous and ovoviviparous nematodes (3 marks)
5. Discuss the 3 stages of pathology in life cycle of *Trichinella spiralis* in man (3 marks)
6. Describe the eggs of *Trichuris trichura* (3 marks)
7. Highlight the differences and the uses of thick and thin slide smears in microscopic diagnosis for malaria. (3 marks)
8. Illustrate the 3 life stages forms of *Entamoeba histolytica* (3 mks)
9. Explain any 3 differences between amoebic dysentery and bacillary dysentery (3 marks)
10. Give three (3) examples each of intestinal amoebae and free-living amoebae (3 marks)

SECTION B (40 Marks) Answer any 2 questions

11. Discuss the laboratory diagnosis of parasites (20 marks)
12. (a) Using diagrams describe the differences between the amastigote, promastigote, epimostigote and trypomastigotes. (12 marks)
(b) Describe the classification of trypanosomes in man and animals (8 marks)
13. Discuss Leishmaniasis (20 marks).
14. (a) Distinguish between *Schistosoma haematobium*, *Schistosoma mansoni* and *schistosoma japonicum*. (10 marks).
(b) Describe the life cycle of *Fasciola hepatica*. (10 marks)