



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR
EDUCATION SCIENCE WITH IT
2nd YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR
MAIN CAMPUS - REGULAR

COURSE CODE: SZL 206

COURSE TITLE: GENERAL PARASITOLOGY

EXAM VENUE: LR 5 STREAM (BED)

DATE: 26/04/2019 EXAM SESSION: 3.00-5.00PM

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: SHORT ANSWER QUESTIONS (30 MARKS)

1. Distinguish between accidental and erratic parasites giving an example in each case. (3 marks)
2. Give three medical importance associated with life cycle a parasite.(3 marks)
3. Briefly explain three factors that confer virulence to medically important protozoans. (3 marks)
4. Explain any three factors that influence the epidemiology of a parasitic infection. (3 marks)
5. Name any two opportunistic parasites and state one immunological effect in patients with concomitant infection. (3 marks)
6. Explain how the life cycle of *Taenia sp.* differ from that of *Diphyllobothrium species*. (3 marks)
7. Distinguish between *Schistosoma mansoni* and *S. haematobium* with regard to pathogenesis. (3 marks)
8. Distinguish between the following digenean trematodes: *Paragonimus westermani*, *fasciolopsis buski* and *Heterophyes heterophyes*. (3 marks)
9. State any three methods/procedures of laboratory diagnosis of pathogenic prarasite in clinical specimens. (3 marks)
10. For each of the following nematodes, state the predilection tissue sites where adults reside: *Onchocerca vulvulus*, *Brugia timori* and *Mansonella perstans*. (3 marks)

SECTION B. ESSAY QUESTIONS (40 MARKS)

11. Discuss filariasis, its lifecycle, pathogen and vectors, clinical features, laboratory diagnosis, treatment and geographical distribution. (20 marks)
12. Write an essay on Visceral Leishmaniasis highlighting the life cycle, epidemiology, sytmatology and diagnosis, treatment and control. (20 marks)
13. Discuss routes by which parasites enter the human body, giving details of the parasite, the stage of the parasite, intermediate hosts (where applicable) involved. (20 marks)
14. Discuss the significance of arthropods as vectors. (20 marks)