



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

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
BIOLOGICAL SCIENCES

3rdYEAR 1st SEMESTER 2022/2023 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE:	SBB1315
COURSE TITLE:	PROTOZOOLOGY
EXAM VENUE:	STREAM: (BSC)
DATE: 19/12/2022	EXAM SESSION: 9.00-11.00AM
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. In reference to the table below, differentiate between the two forms of *Entamoeba histolytica* (3 marks)

Minuta/precyst	Magna/trophozoite

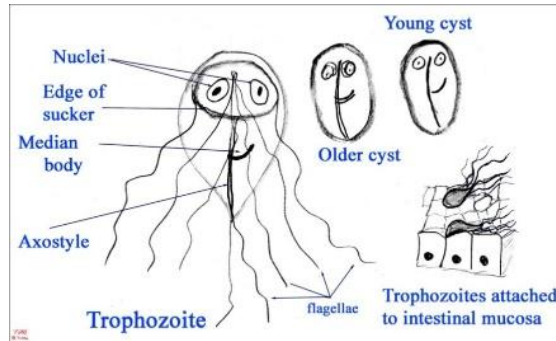
2. List six negative consequences of protozoa infections to the human host (3 marks)
3. Name the species of protozoa parasites transmitted by the following insects (3 marks)

Tsetse fly.....

Sand flies.....

Mosquitoes.....

4. Describe any three pathologies associated with *Entamoeba histolytica* infection. (3 marks)
5. Name the causal organism of Trichomoniasis and state four symptoms (3 marks)
6. State three types of barriers evolved by vertebrate hosts to reduce the risk of protozoa infections (3 marks)
7. Describe how you will prevent the spread of cryptosporidiosis in the Lake Victoria basin (3 marks)
8. Outline three ways by which protozoa parasites infect their hosts (3 marks)
9. Name the species of parasitic protozoa represented in the diagram below, disease caused and drug used for treatment (3 marks)



3. List three characteristics that qualify some protozoa species as parasites (3 marks)
10. Using a suitable example distinguish between a parasite and a vector (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

11. Describe various techniques used by referral hospitals to diagnose protozoan infections (20 marks)
12. Discuss factors that influence epidemiology of protozoa infections in western Kenya (20 marks)
13. Discuss human immune responses to parasitic infections (20 marks)
14. Describe adaptive strategies used by protozoa parasites to enhance survival in the hosts' body (20 marks)