



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

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION**  
**SCIENCE**

**2<sup>nd</sup> YEAR 2<sup>nd</sup> SEMESTER 2022/2023 ACADEMIC YEAR**

**MAIN CAMPUS - REGULAR**

---

<b>COURSE CODE:</b>	<b>SBB1902</b>
<b>COURSE TITLE:</b>	<b>GENERAL PARASITOLOGY</b>
<b>EXAM VENUE:</b> LAB 4/5	<b>STREAM: (BSC)</b>
<b>DATE:</b> 14/12/2022	<b>EXAM SESSION: 9.00-11.00AM</b>
<b>TIME: 2 HOURS</b>	

---

**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**
-

**SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)**

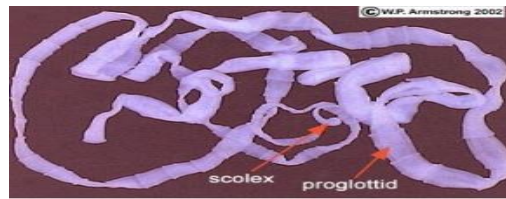
1. Outline two categories of nematodes based on their location in the vertebrate host and state two parasitic species that belong to each group (3 marks)

2. Identify the phylum and class in which the Helminthes parasite below belongs and name an example of such species (3marks)

Phylum: .....

Class:.....

Example:.....



3. Describe three life cycle adaptations of protozoa and helminth parasites (3marks)

4. State three mode of parasite transmission in livestock and human beings (3marks)

5. Explain why parasitology should be taught to undergraduate students (3 marks)

6. Using specific examples name three classes of parasitic protozoa (3marks)

7. Name three species of blood flukes that cause schistosomiasis in human beings (3 marks)

8. State three factors that influence physiological regulation of the human immune system (3marks)

9. Name the parasitic pathogen and disease transmitted by the insect vectors provided in the table below (3 marks)

<b>Insect Vector</b>	<b>Parasite</b>	<b>Disease Caused</b>
Mosquito		
Kissing/Triatomine bug		
Sandfly		

10. How can you control the transmission of parasitic protozoa among primary school children along the Kenyan coast (3 marks)



**SECTION B: ESSAY QUESTIONS (40 MARKS)**

11. Discuss the negative consequences of parasitic Helminthes and protozoa to the human and livestock host (20 marks)
12. Describe human immune responses to parasitic infections (20 marks)
13. Describe how parasitic infection are diagnosis and treated in Kenya (20 marks)
14. Discuss factors influencing epidemiology of parasitic diseases in East Africa (20 marks)