JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES

UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE WITH IT.

2ND YEAR 2 SEMESTER 2015/2016 ACADEMIC YEAR.

MAIN CAMPUS-REGULAR RESIT

COURSE CODE: **SZL 206**

COURSE TITLE: **GENERAL PARASITOLOGY**

EXAM VENUE: LAB 1 **STREAM: (BED)**

DATE: 05/05/16 **EXAM SESSION: 2.00 – 4.00 PM**

TIME: 2 HOURS

INSTRUCTIONS:

1. **Answer ALL questions in Section A and any Two (2) questions in Section B.**
2. **Candidates are advised not to write on the question paper.**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A (30 Marks):

INSTRUCTIONS: ANSWER ALL QUESTIONS IN THIS SECTION

1. Explain the three types of symbiotic relationships and give examples. (3 marks)

2. Name three types of extraintestinal pathology associated with *Entamoeba histolytica* infection. (3 marks)

3. List the distinguishing features of morphological stages of *Giardia intestinilis*. (3 marks)

4. With reference to the specific diseases they cause among humans, name three important species of *Leishmania*. (3 marks)

5. State the distinguishing features of *Faciola hepatica* eggs relative *Fasciolopsis buski* eggs. . (3 marks)

6. Giving specific species as examples, name any three routes of infection used by nematodes to get entry into their hosts. (3 marks)

7. State any three distingushing morphological features of parasitic versus free living female *Strongyloides stercoralis*. (3 marks)

8. Distinguish between the following stages of *Toxoplasma gondii*:- (3 marks)
   a) Tachyzoite stage
   b) Bradyzoites
   c) Oocysts
9. Describe reproduction in *Trichinella spiralis.* (3 marks)

10. With emphasis on their geographical distribution, vectors and types of diseases they cause distinguish between *Trypanosoma brucei gambiense and Trypanosoma brucei rhodesiense*. (3 marks)

SECTION B (40 MARKS)

ANSWER ANY TWO QUESTIONS FROM THIS SECTION (20 MARKS EACH)

11. Write an essay on *Schistosoma species* of flukes. (20 marks)
12. Using specific parasite species as examples discuss the pathology and clinical symptoms associated with parasitic infections. (20 marks)
13. Describe the different control measures used in prevention of parasite transmission and give specific examples. (20 marks)
14. Discuss how a parasites ecological niche influences the choice of specimens to be collected for parasite diagnosis. (20 marks)