



SOUTH EASTERN KENYA UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN BIOLOGY**

SBL 408: PARASITOLOGY II

9TH DECEMBER, 2016

TIME: 1.30-3.30 P.M

INSTRUCTIONS TO CANDIDATES

- (a) Answer ALL questions in Section A**
- (b) Answer ANY TWO questions in Section B**
- (c) Illustrate your answers with well labeled diagrams where appropriate**

SECTION A (30 marks)

1. List the protozoa phyla and give an example of each. **(4 marks)**
2. Identify the types of infectious amoebiasis. **(3 marks)**
3. Briefly describe exo-erythrocytic schizogony in *Plasmodium falciparum*. **(4 marks)**
4. Give diseases caused by cestodes and their hosts. **(4 marks)**
5. Name four tick-borne diseases **(4 marks)**
6. Draw a well-labelled diagram of a leishmaniasis amastigote. **(4 marks)**
7. List the subspecies of *trypanosoma* and the diseases they cause. **(3 marks)**
8. (a) Name the protozoa with only one parasite infecting humans. **(1 mark)**
(b) Name the parasite in (a) above. **(1 mark)**

(c) Briefly describe the mode of infection of the parasite in (b) above and its effect in the human host. **(2 Marks)**

SECTION B(40 marks)

9. Discuss the lifecycle of African trypanosomiasis. **(20 marks)**

10. Discuss the disease leishmaniasis. **(20 marks)**

11. Discuss the pathogenicity, clinical manifestation and immunity of schistosoma. **(20 marks)**

12. The new malaria vaccine RTS,S has been validated for use in children but not in adults. Explain why it is difficult to develop an effective malaria vaccine. **(20 marks)**