



UNIVERSITY OF NAIROBI

UNIVERSITY EXAMINATIONS 2017/2018

THIRD YEAR EXAMINATIONS FOR THE DEGREE OF BACHELOR OF
SCIENCE

SZL 310: INTRODUCTION TO PARASITOLOGY

DATE: MARCH 9, 2018

TIME: 11.00 A.M. - 1.00 P.M.

INSTRUCTIONS:

SECTION A: Illustrate your answers with well-labelled drawings where appropriate.

Answer ALL questions. Each Question is 3 Marks.

1. With the help of examples define parasitism. (3 Marks)
2. Differentiate between obligate and temporary parasite. (3 Marks)
3. Describe the effects that parasites could have on their hosts. (3 Marks)
4. List (two) 2 hemo-somatic flagellates relevant to Kenya plus their vectors. (3 Marks)
5. Giving examples list 3 sources of exposure to infection by parasites. (3 Marks)
6. Name three factors that determine the distribution of parasites. (3 Marks)
7. Write the sources of specimen for the following flagellates. (3 Marks)
 - (a) *Giardia lamblia*
 - (b) *Trypanosoma brucei*
 - (c) *Leishmania donovani*
8. Giving examples, enumerate how parasites can be classified. (3 Marks)
9. Enumerate the vectors involved for the transmission of (3 Marks)
 - (a) *Leishmania donovani*
 - (b) *Plasmodium falciparum*
 - (c) *Trypanosoma brucei gambiense*
10. What is the diagnostic and infective stage of the malaria parasite? (3 Marks)

SECTION B: Answer any TWO questions. Each Question is 20 Marks

1. Discuss and give examples on parasite immune escape mechanisms. (20 Marks)
2. Discuss the factors that have caused traditional malaria control methods to fail. (20 Marks)
3. Distinguish the following developmental stages in life cycle of hemo-flagellates: Amastigote, promastigote, and trypomastigote. (20 Marks)
Amastigote
promastigote
trypomastigote
4. Discuss on how parasites especially helminthes are morphologically adapted to live in their hosts. (20 Marks)