

Third year examination for the degree of BSC (Biology)

SZL 315

INTRODUCTION TO PARASITOLOGY

SECTION A. COMPULSORY. 30 Marks,

QUESTION 1

- a. Outline the various methods of the management of Malaria. 3 marks
- b. Explain the consequences of a poorly developed host – parasite relationship. 3 marks
- c. With specific examples, define the following terms as used in parasitology: 4 marks
 - i. Zoonotic disease
 - ii. Definitive host
 - iii. Predilection site
 - iv. Indirect life cycle of a parasite
- d. Explain why the liver of a vertebrate host provides an important habitat for infestation by parasites. 4 marks
- e. Briefly discuss three issues involved in the management of Human African Trypanosomiasis. 4 marks
- f. Outline the generalized live cycle of parasites belonging to the phylum Nematoda. 4 marks
- g. Differentiate between cyclical and mechanical transmission of trypanosomiasis 4 marks
- h. With respect to parasite, vectors, distribution and route of infection, characterize Chagas disease 4 marks

SECTION B. ANSWER ONLY TWO QUESTIONS

2. Using an annotated diagram, describe the lifecycle of a named malaria parasite. 20 marks
3. a. Discuss the various reactions of a host to parasite infection. 10 marks
 - b. Describe the various effects of a parasite on its host 10 marks
4. Compare the life cycle of the Cestodes *Fasciola hepatica* and *Taenia saginata* 20 marks
5. a. Discuss the factors that control the genetic adaptability of parasites. 10 marks
 - b. Trace the lifecycle of a named parasite with a migratory life cycle. 10 marks