

## MACHAKOS UNIVERSITY

## University Examinations 2018/2019 SCHOOL OF PURE AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR BACHELOR OF SCIENCE IN BIOLOGY SZL 315: INTRODUCTION TO PARASITOLOGY

DATE: 25/7/2019 TIME: 8.30-10.30 AM

INSTRUCTIONS: answer question one and any other questions

## **QUESTION 1**

<b>a</b> .	Outline the various met	thods of the managemen	nt of Malaria.	3 1	marl	KS
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- 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.
- 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
- 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.
  - 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