

## **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: 26/9/2019 TIME: 2.00-4.00 PM

**INSTRUCTIONS:** answer question one and any other questions

## **QUESTION 1**

9	Outline the yar	rious methods of	of the management	of Malaria	3 marks
a.	Qualifie the val	HOUS IIIEHIOUS C	и ине шапачениеть	OI Maialia.	o 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.
- e. Briefly discuss three issues involved in the management of Human AfricanTrypanosomiasis.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