



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Applied Sciences
Third year – Semester I Examination – September/October 2019**

ZOO 3201 – MEDICAL ENTOMOLOGY

Time: Two (02) hours

Answer FOUR (04) questions only.

1. a) Describe the standard method for initial diagnosis of filariasis in suspected humans. (25 marks)
b) Write a brief account on the control strategies of filariasis in Sri Lanka. (75 marks)
2. a) Assuming you are a medical officer of the anti malarial campaign of Sri Lanka, provide a updated report on the epidemiological status of malaria in Sri Lanka with special emphasis on past, present and future. (75 marks)
b) Describe the dissecting procedure of *Anopheles* spp mosquito for the diagnosis lifecycle stages of the malaria parasite. (25 marks)
3. a) Describe the human baited method in collecting adult mosquitoes and its importance in the field of medical entomology. (60 marks)
b) Explain the methods required for keeping the adult mosquito specimens alive in the field and during transport. (40 marks)
4. a) Discuss the effects of social factors on vector born diseases. (40 marks)
b) Write a brief account on mechanisms which are used by arthropods to transmit parasites in to host tissues. (60 marks)
5. Write short notes on any two (02) of the following
 - a. Vector surveillance of Japanese encephalitis
 - b. Leishmaniasis in Sri Lanka
 - c. Integrated vector management

(100 marks)

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