



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

**B.Sc. (General) Degree in Applied Sciences
Third Year Semester I Examinations – Oct. / Nov., 2015**

ZOO 3209 – Medical Entomology

Time: Two (02) hours

Answer four (04) questions only.

01. a) Explain the contribution of the following scientists to the development of medical entomology as a sub-discipline of entomology.

- i. Patrick Manson
- ii. Theobald Smith
- iii. Sir Ronald Ross
- iv. Paul-Louis Simond
- v. Giovanni Battista Grassi

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- b) Write a brief account on the training and knowledge that should be possessed by a medical entomologist. **(100 marks)**

02. a) Describe the combination of characters that can be used to identify following insect orders.

- i. Diptera
- ii. Hymenoptera
- iii. Siphonoptera

- b) Describe briefly the medical importance of members of these **three** orders.

(100 marks)

03. Giving suitable examples, describe the factors that are involved in spreading vector-borne diseases.

(100 marks)

04. a) Name the two species of vectors of dengue in Sri Lanka.
- b) Briefly explain the morphological features that can be used to identify the adult and larval stages of species mentioned in (a).
- c) Describe the methods that can be used to survey populations of two species mentioned in (a).
- d) Write a brief account on vector surveillance and its importance in medical entomology.

(100 marks)

05. a) Define the following terms in relation to vector-borne diseases.
- i. Epidemiology
 - ii. Control
 - iii. Elimination
 - iv. Eradication
- b) Describe the entomological investigations that should be conducted by medical entomologists to control an emerging vector-borne disease in Sri Lanka.

(100 marks)
