



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE  
Third Examination for Medical Degrees – Part I  
August / September 2011  
PARASITOLOGY – Paper II

Monday 29<sup>th</sup> August, 2011

10.30 am to 12.30 pm  
(2 hours)

Answer all four questions

Illustrate your answers with labeled diagrams wherever necessary

Answer Parts A and B in separate books

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**PART A**

1. As the DDHS (MOH) of Dikwella area, how would you attend to the following health problems?
  - 1.1 Implementation and evaluation of a leishmaniasis control programme in your administrative area. (50 marks)
  - 1.2 Management of a lymphatic filariasis morbidity care clinic in your office. (50 marks)

**PART B**

2. Discuss the scientific importance of the following research findings.
  - 2.1 Ultrasound technique could detect reversal of lymphatic endothelial damage due to anti-filarial treatment. (20 marks)
  - 2.2 90% of food handlers who are infected with *Entamoeba histolytica* are asymptomatic. (20 marks)
  - 2.3 *Plasmodium* parasite's LDH disappears from the patient's circulation soon after treatment. (20 marks)
  - 2.4 Maternal *Toxoplasma* IgM does not cross the placental barrier. (20 marks)
  - 2.5 Malaria infective stage sporozoites are confined mainly to the salivary glands of mosquitoes. (20 marks)

3. Write an account on

3.1 National Malaria Elimination Programme. (50 marks)

3.2 medically important land snakes in Sri Lanka. (50 marks)

4. The warden of an orphanage brought a three year - old female child with a history of sleepless nights, irritability and scratch marks all over the body. On examination child was found to be afebrile and irritable with mild pallor. A general examination showed nits all over the head, pustules between finger webs and curvilinear tracks around the buttocks. Her blood count showed haemoglobin - 9.5 g/dL, WBC -  $7.2 \times 10^3/\text{mm}^3$  and eosinophils - 15%. A direct faecal smear showed planoconvex helminthic eggs.

4.1 List possible parasitic diseases co-existing in this child. (20 marks)

4.2 How would you confirm your clinical diagnosis in each situation stated in 4.1? (30 marks)

4.3 Once the parasitological diagnoses are confirmed how would you manage this patient? (50 marks)

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