



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE
Third Examination for Medical Degrees – Part I
December 2015
PARASITOLOGY – Paper II

Monday 7th December, 2015

10.30 a.m. to 12.30 p.m.
(2 hours)

Answer all four questions

Illustrate your answers with labeled diagrams wherever necessary

Answer each question in a separate book

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1. National surveillance Programme to Eliminate Lymphatic Filariasis (PELF) has encountered residual parasitaemia in Galle municipality, even after five rounds of MDA. Last survey in 2015, 9 individuals were reported to have microfilaria in night thick blood films of 900 examined. As a result Galle municipality has received an additional round of MDA in 2015.
 - 1.1. What were the two major strategies adopted by the national PELF? (20 marks)
 - 1.2. Explain why initially PELF planned to give only five rounds of MDA. (10 marks)
 - 1.3. Describe how you would conduct an IEC programme before MDA. (20 marks)
 - 1.4. Describe how you would evaluate the impact of the last MDA. (50 marks)

 2. Describe the **laboratory diagnosis, management and prevention** of the diseases mentioned in the following case scenarios.
 - 2.1. A 47 year-old soldier who is working in Anuradhapura is having a non-healing ulcer over the nose. A parasitological etiology is suspected. (35 marks)
 - 2.2. A 3 year-old child with a history of passing fleshy whitish moving segments in his faeces for a period of three weeks. (30 marks)
 - 2.3. A 24 year-old man is having blood & mucous diarrhoea following consumption of toddy. (35 marks)

 3. Write short notes on
 - 3.1. cutaneous larva migrans (CLM). (35 marks)
 - 3.2. visceral larva migrans (VLM). (35 marks)
 - 3.3. helminthic auto-infections. (30 marks)

 4. A medical student was admitted to the Emergency Treatment Unit, Teaching Hospital Karapitiya, with a history of high fever with chills and rigors. He has traveled to an African country and stayed there for more than three weeks. A Thin blood film of the student has shown schizonts and sausage shape gametocytes.
 - 4.1. Name the most possible diagnosis stating reasons? (10 marks)
 - 4.2. List the complications that could occur in this student. (30 marks)
 - 4.3. How would you monitor the student to prevent complications mentioned in 4.2? (20 marks)
 - 4.4. Describe a treatment plan for this student. (40 marks)