



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA  
Third Examination for Medical Degrees – Part I  
October 2013  
PARASITOLOGY – Paper II

Monday 14<sup>th</sup> October, 2013

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

- 
1. A medical student of University of Ruhuna, whose home town is Galle, presented to us with one episode of very high fever with chills and rigors. At the time of examination he looked ill but no fever or any other symptoms or signs. He has participated in World University Games held in Kenya, two weeks ago. A parasitological disease is suspected.
    - 1.1. Name two parasites that are most likely to cause fever in this patient? (10 marks)
    - 1.2. Highlight the important facts of the clinical history given above which helped you to name the two parasites in 1.1. (25 marks)
    - 1.3. How do you confirm your clinical diagnosis? (30 marks)
    - 1.4. Discuss the treatment of this patient. (35 marks)
  
  2. If you are appointed as the DDHS (MOH) of Bope-Poddala area for year 2013, describe the best possible methods to address the following issues?
    - 2.1. Elimination of Lymphatic filariasis. (50 marks)
    - 2.2. Soil Transmitted Helminth (STH) control. (50 marks)
  
  3. Describe the best possible management methods that you would apply in the following situations.
    - 3.1. A 5 year-old child presented to you with scratch marks over the buttocks and peri-anal region. Mother also complained about sleepless nights due to irritable behaviour of the child. A parasitological disease was suspected. (30 marks)
    - 3.2. A 46 year-old fisherman was found to have tender hepatomegaly. He is an alcoholic. The ultrasound scan of the abdomen revealed right lobe hepatic abscess. A parasitological disease was suspected. (35 marks)
    - 3.3. A child of a primary school presented to you with a history of passage of white-coloured worm segments in faeces. Parents brought a few of those segments in a small container. (35 marks)
  
  4. Describe the **test indications, bases and interpretations** of the following parasitological diagnostic techniques.
    - 4.1. Charcoal culture method. (30 marks)
    - 4.2. Nuclepore method. (35 marks)
    - 4.3. Immunochromatographic card test for AD-12 antigen. (35 marks)

\*\*\*\*\*