



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE
Third Examination for Medical Degrees – Part I
December 2014
PARASITOLOGY – Paper II

Monday 22nd December, 2014

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. A 5-year old child has been transferred to the National Hospital Colombo from Jaffna Hospital in an unconsciousness state after five days of high fever. Transfer notes indicated that the child had two episodes of generalized seizures while he was treated as an inward patient in Jaffna. Investigation reports indicated that the child had negative blood films for malaria, 6.3 g/dL of Hb and a high eosinophil count. The family has resettled in Jaffna a month ago after thirteen years of displacement in Tamil Nadu. A repeat malaria blood film examined at Colombo Hospital showed gametocytes of a malaria parasite.
- 1.1 Name the most possible malaria parasite which could cause this illness. (10 marks)
- 1.2 What is the final diagnosis? (10 marks)
- 1.3 Discuss the reasons for negative malaria blood films during first five days of the illness. (20 marks)
- 1.4 Why only gametocytes were seen in repeat malaria blood film done at Colombo Hospital. (10 marks)
- 1.5 Describe the pathological features of vital tissues affected in the above child. (30 marks)
- 1.6 Describe the drug management of the above child. (20 marks)
2. A 15-year old school girl from Galle developed cellulitis over medial aspect of the right arm after severe axillary lymphadenopathy on the same side. A palpable vessel was detected over medial aspect of upper part of the right upper limb. Circulatory filarial antigen (CFA) test was positive.
- Name the most possible filarial worm which could cause this pathology. (10 marks)
- 2.2 Describe the pathophysiology of the above clinical presentation. (30 marks)
- 2.3 Why the CFA test was positive in this patient? (20 marks)
- 2.4 Describe how you would manage this patient. (40 marks)
3. An 8-year old boy has developed severe blood & mucous diarrhoea. A parasitological etiology is suspected.
- 3.1 Name three parasites which could cause diarrhoea in this patient. (15 marks)
- 3.2 Discuss the laboratory tests which could be used in the confirmation of the diagnosis. (30 marks)
- 3.3 How would you treat infections due to the parasites mentioned in 3.1? (15 marks)
- 3.4 Describe the life-cycle of one of the parasites mentioned in 3.1. (20 marks)
- 3.5 Describe the prevention of the disease caused by the parasite mentioned in 3.4. (20 marks)
4. Describe briefly,
- 4.1 vipers in Sri Lanka. (50 marks)
- 4.2 leishmaniasis in Sri Lanka. (50 marks)