



UNIVERSITY OF RUHUNA
FACULTY OF MEDICINE
Third Examination for Medical Degrees (Part I)
31st January 2022
PARASITOLOGY – Paper II
10.30 a.m. to 12.30 p.m. (2 hours)



Q1

Faculty of Medicine
 Examination
 31 JAN 2022
 University of Ruhuna

Index number

M	D	2	0						
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Answer all four questions
 Illustrate your answers with labelled diagrams wherever necessary
 Use only the space provided for answering

1. A previously healthy 34-year-old gem businessman residing in Galle presented to Teaching Hospital Karapitiya with high fever, chills and rigors. The blood picture showed multiple infections with ring stages and band-forms. The rapid diagnostic test performed has shown three lines after 20 minutes. The patient has visited Tanzania (an East African country), stayed for more than a week, and returned to Sri Lanka two months ago. The patient didn't contact Anti Malaria Campaign before his overseas travel.

1.1. Name the most probable parasite/s which can cause the above presentation. (10 marks)

1.2. Briefly explain the factors that contributed to him contracting the parasite mentioned in 1.1. (20 marks)



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1.3. Describe briefly the laboratory methods used in the confirmation of the above infection/s.

(30 marks)



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1.4. Outline the plan of management of this patient.

(30 marks)



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1.5.State two important steps taken by the Anti-Malaria Campaign to prevent the spread of the disease once the local patient is diagnosed to be infected with the parasite/s mentioned under 1.1. (10 marks)



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2. A school teacher with acute pitting oedema over the left ankle was admitted to Teaching Hospital Karapitiya with a history of high fever, lymphadenitis and lymphangitis. She first developed lymphadenitis. Filariasis Test Strip (FTS) tested on the patient has shown two lines at ten minutes reading.

2.1. State the possible diagnosis. Give reasons.

(10 marks)

2.2. Describe the pathophysiology of the above presentation.

(40 marks)



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2.3. How would you manage this patient?

(35 marks)

[Large empty rectangular box for answer]



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[Large empty rectangular box for answer]

2.4. How would you evaluate the management programme?

(15 marks)

[Large empty rectangular box for answer]



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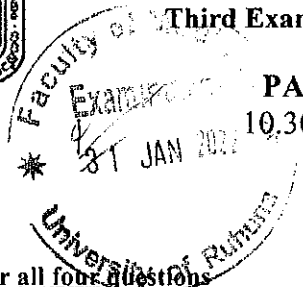
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3.

3.1. A 3-year-old child started to experience sporadic episodes of abdominal pain. A few months later, her parents noticed the spontaneous elimination of creamy white fleshy worm segments in the faeces.

3.3.1. What is the possible diagnosis? (5 marks)

3.3.2. Describe the mode of transmission of the parasite mentioned in 3.3.1. (10 marks)

3.3.3. Describe a laboratory method to confirm the above worm infection with expected findings (15 marks)

Macroscopic



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Microscopic

3.3.4. List two drugs used in the treatment of the parasitic infection mentioned in 3.1.1. with the comparison of the efficacy of those two drugs (10 marks)

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3.3.5. Briefly describe the prevention of the human disease due to the parasite mentioned in 3.1.1. (10 marks)

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3.2. A labourer was admitted to a hospital following a snake bite on the right lower limb. It happened around noon while working in a tea estate. The patient was anxious and had shown some respiratory depression. Local necrosis at the bite site was observed during the examination. The dead specimen of the snake was available.

3.2.1. State the possible snake that caused the bite. Give reasons. (10 marks)

3.2.2. List the expected envenomation features other than the features mentioned in the case scenario. (10 marks)

3.2.3. What toxin component has caused local necrosis in this patient? (10 marks)



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3.2.4. List the steps in the management of this patient

(10 marks)

3.2.5. List measures to prevent similar incidents among tea estate workers?

(10 marks)



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4. A patient was presented to a skin clinic with a non-healing ulcer over the right cheek. The lesion had everted edge, and a few satellite lesions were scattered around the primary ulcer. A malignant aetiology was excluded, and a parasitological diagnosis is expected.

4.1. What is the most likely diagnosis? (10 marks)

4.2. State the parasite and its zymodeme in Sri Lanka that causes the condition mentioned in 4.1. (10 marks)

4.3. List other clinical manifestations caused by the parasite mentioned in 4.2. (15 marks)

4.4. Describe how you would confirm your clinical diagnosis. (25 marks)



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4.5. Describe how you would treat this patient.

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4.6. List methods that could prevent the transmission of disease mentioned in 4.1.

(20 marks)