



UNIVERSITY OF RUHUNA
FACULTY OF MEDICINE
Third Examination for Medical Degrees (Part I)
23rd June 2020
PARASITOLOGY – Paper II
10.30 a.m. to 12.30 p.m. (2 hour)



Q1

Index number:

Tuesday 23rd June, 2020

Answer all four questions

Illustrate your answers with labelled diagrams wherever necessary

Use only the space provided for answering

1. A previously healthy 24-year-old male from India presented to a National Hospital with three days of fever, headache, and myalgia. He arrived in Sri Lanka 7 months before and has worked as a labourer at a construction site in Colombo. He gave a history of similar febrile episode when he was in India. The blood picture showed schizonts.

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

1.2. Briefly explain how he contracted the parasite mentioned in 1.1. (20 marks)



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Q1

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1.3. Describe how the blood film is being done for the parasitological diagnosis. (20 marks)

1.4. State another confirmatory test. (10 marks)

1.5. Outline the plan of management for this patient. (30 marks)



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



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Q2

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2.1. Pet associated parasitic diseases-proven zoonoses are reported in Sri Lanka.

2.1.1. List three (03) pets known to cause zoonoses in Sri Lanka

(06 marks)

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2.1.2. List two (02) potential parasites under each category responsible for zoonoses in Sri Lanka.

(24 marks)

Nematodes (Intestinal)	
Nematode (Tissue)	
Cestode	
Protozoan (Intestinal)	
Protozoan (Tissue)	
Arthropods	



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Q2

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2.1.3. List five (05) clinical presentations associated with parasites mentioned in 2.1.2. (10marks)

2.1.3. List five (05) diagnostic and treatment methods of the relevant parasites mentioned in 2.1.2. (10 marks)



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Q2

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2.2. Auto-infection is a reinfection with infective stage produced by the parasite already in the body.

2.2.1. State two types of auto-infections. (4 marks)

2.2.2. State two (02) parasitic species which cause types of auto-infections mentioned in 2.2.1. (16 marks)

2.2.3. List clinical features of infections caused by the parasites mentioned in 2.2.2. (10 marks)



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Q2

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2.2.4. List methods of diagnosis of infections caused by the parasites mentioned in 2.2.2. (10 marks)

2.2.5. Describe the management and the prevention of auto-infections causing parasites mentioned in 2.2.2. (10 marks)



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Q3

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3.1. A 50-year-old farmer from Anuradhapura presented with intermittent fever, fatigue, weight loss and progressive abdominal distension over 7 months. On examination he was found to have a distended abdomen with marked hepato-splenomegaly and lymphadenopathy. Investigations revealed low white cell counts, a hemoglobin level of 6 g/dl and positive rK39 antibody test.

3.1.1. What is the most likely clinical diagnosis? **(5 marks)**

3.1.2. State the most probable causative agent of the clinical diagnosis mentioned in 3.1.1. **(5 marks)**

3.1.3. Name **two (02)** other clinical forms which are caused by the parasite mentioned in 3.1.2. in Sri Lanka. **(10 marks)**

3.1.4. Name **three (03)** possible specimens and corresponding diagnostic tests used to arrive at a parasitological diagnosis **(30 marks)**

Specimen	Diagnostic test



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Q3

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3.2. A 10-year-old boy from an urban slum area presented with blood and mucous diarrhoea.

3.2.1. List two (02) possible parasites which can cause blood and mucous diarrhoea in this boy. (10 marks)

3.2.2. Briefly describe the laboratory tests performed to arrive at a parasitological diagnosis. (30 marks)



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Q3

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3.2.3. List the drugs used for the parasites you mentioned under 3.2.1.

(10 marks)



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4. A 25-year-old female from Galle developed pain and redness over the left leg after severe inguinal lymphadenopathy on the same side. A palpable vessel was detected over the medial aspect of the left thigh. Circulatory filarial antigen (CFA) test was positive.

4.1. Name the possible filarial worm which could cause this clinical presentation. (10 marks)

4.2. Describe the pathophysiology of the above clinical presentation. (30 marks)



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4.3. Why was the CFA test positive in this patient?

(20 marks)

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Q4

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4.4. Describe how you would manage this patient.

(40 marks)

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Q4

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