

UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES (2nd) April 2017

Parasitology

Date : 25.04.2017

Time allowed: 2 hour

Answer all **four** questions

1. A group of medical students participated in a medical camp to identify the health issues of the children in an orphanage. It was noted that the orphanage was overcrowded. During the inspection of students they have also identified some parasitological conditions spreading among those students.
 - 1.1 List **three** possible parasitic conditions that can spread fast in such overcrowded situations. (15 marks)
 - 1.2 State the mode of transmission of the parasitic conditions you mentioned above. (20 marks)
 - 1.3 Outline the confirmatory procedure for **each** of the conditions you mentioned in 3.1 (30 marks)
 - 1.4 Briefly describe the treatment and the management that you will recommend for the parasitic conditions you mentioned above. (35 marks)

2. A 54-year-old farmer was transferred to the Jaffna Teaching Hospital, complaining of shortness of breath, fatigue and dizziness which lasted for one month. He was undernourished and lost approximately 12 kg weight within four months previous to admission. On physical examination at admission, he was pale and ill-looking but his vital signs were stable. Laboratory results revealed overt anemia: RBC $1.66 \times 10^6 / \mu\text{L}$ (normal $4.0-5.4 \times 10^6 / \mu\text{L}$), Hb 3.4 g/dL (normal 12-16 g/dL). RBCs were microcytic and hypochromic.
 - 2.1 Name the intestinal nematode infections which may responsible for the above condition. (10 Marks)
 - 2.2 How will you confirm the parasitic infections in the laboratory which you mentioned above? (20 Marks)
 - 2.3 Outline the life cycle of the parasites which you mentioned in 2.1 (30 Marks)
 - 2.4 Discuss the measures to be taken for the prevention and control of the above infections in a community. (40 Marks)

3. A 45 year old tourist from Brazil (Latin America) found yellowish white segments moving in his underwear or feces. He was also complained of lower abdominal discomfort and anal itching. Patient had the history of eating raw pork or partially cooked pork recently.

3.1 What could be the most likely parasitic condition and the parasite responsible for the above? (10 Marks)

3.2 How will you confirm the above parasitic infections? (25 Marks)

3.3 Briefly describe the risk condition which is possible for the above patient as well as the people living in the same household. (30 Marks)

3.4 What are the precautionary measures you will recommend to prevent the risk which you mentioned in 3.3? (35 Marks)

4. Discuss the following.

4.1 Neurotoxicity in Sri Lankan snakebite victims (50 Marks)

4.2 Parasitic diarrhoea (50 Marks)