



UNIVERSITY OF RUHUNA, FACULTY OF MEDICINE, GALLE
Third Examination for Medical Degrees (Part 1)
MEDICAL MICROBIOLOGY - Paper 11 - Essay

Monday 5th July 2004

10.30 am to 12.30 pm

Answer all FOUR questions

Answer parts A, B and C in separate answer books

PART A

- 1.1. Outline the etiology, laboratory diagnosis and prevention of
- 1.1.1. Viral hepatitis. (30 marks)
 - 1.1.2. Viral pneumonia. (30 marks)
- 1.2. Outline the immunological basis and prevention of
- 1.2.1. Graft rejection. (20 marks)
 - 1.2.2. Haemolytic disease of the newborn. (20 marks)

PART B

2. Explain the pathogenesis of the following diseases and outline the measures that could have been taken to prevent them.
- 2.1 Dengue haemorrhagic fever in a ten-year-old child. (30 marks)
 - 2.2 Onychomycosis of the fingers in a house wife. (20 marks)
 - 2.3 Blood and mucous diarrhoea in a one-year-old child. (30 marks)
 - 2.4 Gangrene of the leg following a crush injury sustained in a road traffic accident. (20 marks)

PART C

3. Discuss the value of microscopic examination of
- 3.1 CSF in the management of pyogenic meningitis. (25 marks)
 - 3.2 Urethral discharge in the management of urethritis. (25 marks)
 - 3.3 Sputum in the management of pulmonary tuberculosis. (25 marks)
 - 3.4 Skin scrapings in the management of dermatophyte infections. (25 marks)
4. A 25-year-old female complains of fever, lower abdominal pain, dysuria and frequency of micturition of 2 days duration.
- 4.1 What is the most likely diagnosis? (10 marks)
 - 4.2 Name the pathogens that can cause this infection in different settings. (20 marks)
 - 4.3 Describe the microbiological investigations you will undertake to confirm your diagnosis. (40 marks)
 - 4.4 Discuss the antibiotic treatment in this patient. (30 marks)