



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

Monday 4th July 2005

10.30 am to 12.30 pm

Answer all FOUR questions

Answer parts A, B and C in separate answer books

PART A

- 1. List the causative organisms and explain the pathogenesis and microbiological investigations in the following clinical entities.
 - 1.1 Tinea capitis in a 5 year old child (35 marks)
 - 1.2 Urinary tract infection in a catheterized male patient in the Intensive Care Unit. (35 marks)
 - 1.3 Ophthalmia neonatorum (30 marks)

PART B

- 2. Write on
 - 2.1 Latent infections of herpes viruses. (30 marks)
 - 2.2 Pathogenesis and preventive measures of Japanese encephalitis (35 marks)
 - 2.3 Pityriasis versicolor (35 marks)

PART C

- 3. A 32 year old male comes to the Sexually Transmitted Infections clinic complaining of a single, painless ulcer on the shaft of the penis of one weeks duration.
 - 3.1 What is the most likely diagnosis? (10 marks)
 - 3.2 Name the causative organism responsible for the condition mentioned in 3.1 (10 marks)
 - 3.3 Explain giving reasons the microbiological investigations that would help to confirm the diagnosis in 3.1 (30 marks)
 - 3.4 Name **two** antimicrobial agents that can be used to treat the condition in 3.1 and describe additional steps that can be taken in the management of this patient. (30 marks)
 - 3.5 Name **three** other infections causing genital ulcers and explain how they differ in their clinical presentation from 3.1 (20 marks)
- 4.
 - 4.1 Describe the normal cerebrospinal fluid full report and briefly discuss how it would alter in the different types of central nervous system infections. (50 marks)
 - 4.2 Name the serological markers of hepatitis B virus infection and briefly describe the significance of their presence in blood. (50 marks)

