



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA
Third Examination for Medical Degrees Part I – October 2013
MEDICAL MICROBIOLOGY - Paper II

Tuesday 15th October 2013

10.30 a.m. to 12.30 p.m.

Answer ALL FOUR questions.

Answer each question in a separate answer book.

1. List the aetiological agents, outline the pathogenesis and antimicrobial management of the following conditions.
 - 1.1 Community acquired pneumonia (35 marks)
 - 1.2 Cellulitis (30 marks)
 - 1.3 Septic arthritis (35 marks)

2. Write notes on
 - 2.1 disinfection of endoscopes. (30 marks)
 - 2.2 tinea corporis. (35 marks)
 - 2.3 use of specific immunoglobulins in the management of infectious diseases. (35 marks)

3. Write briefly on the microbiological investigations and the interpretation of the results in the diagnosis of the following conditions.
 - 3.1 Hepatitis B virus infection (35 marks)
 - 3.2 Primary syphilis (30 marks)
 - 3.3 Dengue fever (35 marks)

4. A 6 year-old boy was admitted to the hospital with fever, headache and vomiting of 1 day duration. On examination, he had neck stiffness and positive Kernig's sign.
 - 4.1 State the most likely diagnosis? (10 marks)
 - 4.2 List 3 bacterial pathogens responsible for the condition stated in 4.1. (15 marks)
 - 4.3 List the microbiological investigations and describe how you would collect and transport appropriate specimens to confirm your diagnosis stated in 4.1. (40 marks)
 - 4.4 Discuss the antimicrobial therapy in this patient. (25 marks)
 - 4.5 Describe the follow up measures you would take in the management of this patient. (10 marks)