



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

Friday 18th December 2009

10.30 am to 12.30 pm (2 hours)

Answer all FOUR questions

Answer each question in a separate answer book

1. List the appropriate microbiological investigations, describe the collection and transport of the relevant specimens and discuss the empirical antimicrobial therapy of the following conditions.
 - 1.1 Fungal infections of the scalp. (30 marks)
 - 1.2 Pulmonary tuberculosis. (35 marks)
 - 1.3 Acute osteomyelitis. (35 marks)

2. Write on
 - 2.1 serological markers of hepatitis B virus infection. (35 marks)
 - 2.2 cerebrospinal fluid changes occurring in meningitis. (30 marks)
 - 2.3 post-exposure prophylaxis of rabies. (35 marks)

3. A 26 year-old man presents with dysuria and urethral discharge of 2 days duration.
 - 3.1 What is the probable diagnosis and the causative agents of this condition ? (15 marks)
 - 3.2 Describe the pathogenesis of this infection including transmission, incubation period, sites of infection, and clinical presentations both in males and females ? (25 marks)
 - 3.3 Write on the microbiological diagnosis of this infection mentioned in 3.2, including collection and transport of specimens both in males and females? (30 marks)
 - 3.4 Describe briefly the possible complications of this infection? (20 marks)
 - 3.5 What antibiotics would you use to treat this patient? (10 marks)

4. Write on enteric fever including causative agents, sources of infection, transmission, clinical presentation, microbiological diagnosis and antimicrobial therapy. (100 marks)