



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

Wednesday 9th September 2009

10.30 am to 12.30 pm

Answer ALL FOUR questions

Answer each question in a separate answer book

1. Describe community acquired bacterial pneumonia with reference to aetiological agents, pathogenesis, microbiological investigations including specimen collection and transport and empiric antimicrobial therapy. (100 marks)

2. A 6 year old child presented with an itchy skin lesion in the axilla. On examination the lesions were scaly, circular with erythematous margins.
 - 2.1 What is the diagnosis/differential diagnosis? (15 marks)
 - 2.2 List 3 pathogens that may cause this infection. (15 marks)
 - 2.3 Describe briefly the pathogenesis of these infections. (30 marks)
 - 2.4 How would you arrive at a laboratory diagnosis? (30 marks)
 - 2.5 How would you treat this infection? (10 marks)

3. A one month old baby admitted to the paediatric ward with microphthalmia was diagnosed as having congenital rubella syndrome. The mother says that eight months before she became pregnant, she was immunized for rubella by the district midwife.
 - 3.1 What possible explanations can you give for what has happened. (20 marks)
 - 3.2 Describe the rubella vaccine and its current status in the EPI schedule. (30 marks)
 - 3.3 Discuss the factors that make an infectious disease the target for global eradication, giving examples. (50 marks)

4. Write on
 - 4.1 aminoglycosides (25 marks)
 - 4.2 novel H1N1 influenza (25 marks)
 - 4.3 antiseptics (25 marks)
 - 4.4 passive immunity (25 marks)