



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

Monday 11th December 2006

10.30 am to 12.30 pm

Answer ALL FOUR questions

Answer each question in a separate answer book

1. A middle aged female complains of excessive vaginal discharge for the past 3 months.
 - 1.1 List the possible infective causes for her symptoms. (15 marks)
 - 1.2 What are the predisposing factors for each of the causes you have mentioned in 1.1? (25 marks)
 - 1.3 To establish a microbiological diagnosis, what specimens will you collect and how will you transport them? (25 marks)
 - 1.4 Describe the pathogenesis and management of one of the fungal causes mentioned in 1.1 (35 marks)

2. Describe the most appropriate microbiological investigation including collection and transport of specimens for the diagnosis of the following conditions.
 - 2.1 Pyogenic meningitis (35 marks)
 - 2.2 Urinary tract infection (35 marks)
 - 2.3 Fungal infection of the nails (30 marks)

3. Write short notes on
 - 3.1 Cerebrospinal fluid changes in meningitis (35 marks)
 - 3.2 Type 1 hypersensitivity (35 marks)
 - 3.3 Epidemiology and control strategies in Avian Influenza (30 marks)

4. A pregnant mother in her first trimester comes to you for advice and management after her close friend was diagnosed as having rubella 2 days ago.
 - 4.1 Give a brief description of the virus and the pathogenesis of Rubella infection? (20 marks)
 - 4.2 What are the clinical manifestations of rubella? (15 marks)
 - 4.3 Name the laboratory tests that could be done and their interpretation, to see if the mother is infected or not. (20 marks)
 - 4.4 If the mother is infected how will the foetus be affected? (15 marks)
 - 4.5 If the mother is not infected, what advice will you give her? (20 marks)
 - 4.6 Describe briefly immunization against rubella. (10 marks)