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

Tuesday 29th November 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. Explain the pathogenesis of the following suspected clinical entities and how you would arrive at a diagnosis by laboratory based evidence.
 - 1.1 Rabies in an 8 year old child following a dog bite of the leg. (35 marks)
 - 1.2 Dengue haemorrhagic fever in an adult male. (35 marks)
 - 1.3 Fungal pneumonia in a neutropenic child. (30 marks)

PART B

2. Write on
 - 2.1 Methicillin Resistant *Staphylococcus aureus* (MRSA). (30 marks)
 - 2.2 Atypical pneumonia. (35 marks)
 - 2.3 Immunization against Hepatitis B. (35 marks)

PART C

3. A 2 year old child is brought to the hospital with a history of watery diarrhoea of 5 days duration.
 - 3.1 List the likely causes of this diarrhoea? (15 marks)
 - 3.2 Describe briefly how you would investigate microbiologically, to determine its cause. (35 marks)
 - 3.3 Explain the role of antibiotics in infective diarrhoea of children. (20 marks)
 - 3.4 Describe measures that can be taken to prevent infective diarrhoea in children. (30 marks)

4. Write on :
 - 4.1 Primary and secondary immune response (30 marks)
 - 4.2 Universal precautions in the control of hospital acquired infections. (35 marks)
 - 4.3 First line defenses against invading microbes. (35 marks)