



**Faculty of Medicine, University of Ruhuna**  
**Third Examination for Medical Degrees - Part II December 2008**

**Pathology Paper I**

Tuesday 23<sup>rd</sup> December 2008

9.00am to 11.00 am  
2 hours

Answer **ALL FOUR** questions.  
Answer each part in a **SEPARATE** book.

**Part A**

- 1 Give an account on
- 1.1 the pathogenesis and the pathological changes of bacterial pneumonia. (60 marks)
  - 1.2 complications of myocardial infarction. (40 marks)

**Part B**

- 2 A four year old boy presented with periorbital oedema, passage of dark colour urine and reduced urine out put of three days duration. Physical examination revealed a skin rash on both legs and elevated blood pressure.
- 2.1 What is the most likely diagnosis for this patient? (10 marks)
  - F 2.2 Describe the probable microscopic changes in the kidney for the diagnosis mentioned in 2.1. (20 marks)
  - 2.3 Describe briefly the pathogenesis of the condition mentioned in 2.1. (30 marks)
  - 2.4 List the essential biochemical investigations you would request for this patient and state their expected findings. (40 marks)

**Part C**

3. A 65 year old male presented with an ulcer on the right leg of 5 months duration. The surgeon who examined him suspected a malignant ulcer and decided to take a biopsy.
- 3.1 Describe the possible macroscopic features of this ulcer which lead to the clinical diagnosis of a malignant ulcer. (30 marks)
  - 3.2 What is the most appropriate site of the ulcer from where the biopsy should be taken? (10 marks)
  - 3.3 Describe briefly how you would transport the biopsy to the laboratory. (15 marks)
  - 3.4 The histological assessment of the biopsy confirmed that the ulcer is malignant. List TWO possible histological types. (15 marks)
  - 3.5 Describe the microscopic appearance of one of the histological types you have mentioned in 3.4. (30 marks)

**Part D**

- 4 A 50 year old chronic alcoholic patient presented with abdominal distention and swelling of legs. On examination, he had palmar erythema, spider naevi and splenomegaly.
- 4.1 What is the probable diagnosis? (10 marks)
  - 4.2 Mention TWO haematological tests you would request for this patient indicating the expected findings. (20 marks)
  - 4.3 Explain briefly the pathological basis for the expected findings given in 4.2. (30 marks)
  - 4.4 Describe the macroscopic and microscopic features of the liver in this patient. (40 marks)