Faculty of Medicine
University of Ruhuna
Third Examination for Medical Degrees - Part II
December- 2010

Pathology   Paper I

Wednesday 22nd December 2010
9.00am to 11.00 am
2 hours

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

Part A

1   1.1   List four common types of primary lung cancers.   *(10 marks)*

1.2   Describe how you would investigate a patient suspected of having lung cancer.

(40 marks)

1.3   Describe the post-mortem appearances in the thoracic cavity of a patient who

has died of lung cancer.   *(50 marks)*

Part B

2   Write notes on

2.1   chronic gastritis.   *(30 marks)*

2.2.   renal cell carcinoma.   *(40 marks)*

2.3   liver cell necrosis.   *(30 marks)*

Part C

3   3.1   Explain the pathological basis of anaemia in malignancy.   *(50 marks)*

3.2   Discuss the factors affecting wound healing.   *(30 marks)*

3.3   Write notes on epithelial metaplasia.   *(20 marks)*

Part D

4   4.1   A 50-year-old male was admitted to a medical ward with a history of severe retrosternal chest pain of 3 hours duration. He had been treated for five years for hypertension and he said he had smoked 10 cigarettes per day. ECG on admission revealed ST elevations.

4.1.1   What is the most likely diagnosis?   (5 marks)

4.1.2   List the biochemical markers used in current clinical practice to confirm the diagnosis in this patient.   (5 marks)

4.1.3   Illustrate using a graph how the plasma concentrations of the above markers change over time since the onset of chest pain.   (10 marks)

4.1.4   Describe briefly how you would collect samples for the biochemical markers mentioned in 4.1.2   (10 marks)

4.1.5   List three other biochemical tests that you would request during the first day of admission for this patient, explaining the rationale.   (20 marks)

4.2   He died on the 4th day of admission in spite of the treatment given.

4.2.1   Describe briefly the microscopic changes you would expect to see in the myocardium sampled at the postmortem of this patient.   (25 marks)

4.2.2   Describe briefly the probable causes of death in this patient.   (25 marks)