



Faculty of Medicine, University of Ruhuna
Third Examination for Medical Degrees (Part II) – January 2013
Pathology Paper I

Wednesday 30th January 2013

9.00 a.m. to 11.00 a.m.
2 hours

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

Part A

1. Briefly explain the pathological basis of
 - 1.1 the manifestations which occur due to the local spread of lung carcinoma. (60 marks)
 - 1.2 heart failure in a patient with coronary atherosclerosis. (40 marks)

Part B

2. A 65 year-old female with generalised weakness, weight loss and anorexia of three months duration had been treated by several general practitioners without any improvement in her clinical condition. One general practitioner noticed that she was anaemic and had an enlarged supraclavicular lymph node. He suspected a gastric carcinoma and referred the patient to a surgeon.
 - 2.1 List **five** risk factors for gastric carcinoma. (15 marks)
 - 2.2 Describe the morphological appearances of gastric carcinoma. (50 marks)
 - 2.3 What are the investigations which can be used to confirm the diagnosis of gastric carcinoma in this patient? (15 marks)
 - 2.4 Briefly describe the pathological basis of the enlarged supraclavicular lymph node in this patient. (20 marks)

Part C

3. Describe the macroscopic and microscopic features of
 - 3.1 kidneys in chronic pyelonephritis. (30 marks)
 - 3.2 brain in acute pyogenic meningitis. (30 marks)
 - 3.3 uterus with fibroids. (40 marks)

Part D

4. A 55 year-old male presented with bilateral ankle swelling and vague ill health. On examination he had bilateral parotid swelling, generalised loss of body hair, ascites, spider naevi and Dupuytren's contractures of both palms.
 - 4.1 What is the most likely diagnosis? (10 marks)
 - 4.2 List **five** biochemical investigations you would do for this patient explaining the rationale for requesting them. (30 marks)
 - 4.3 Briefly describe how you would collect samples for the tests mentioned in 4.2. (10 marks)

During his stay in the hospital a minor elective surgery was planned.

 - 4.4 List **three** haematological parameters which could be abnormal in this patient, which should be assessed before the surgery, giving the expected findings and the pathological basis for the alterations observed. (35 marks)
 - 4.5 List **three** therapeutic measures you would recommend for this patient before the surgery with relevance to the abnormal haematological parameters mentioned in 4.4. (15 marks)