



Faculty of Medicine, University of Ruhuna  
Third Examination for Medical Degrees - Part II August 2009

Pathology Paper I

Wednesday 26<sup>th</sup> August 2009

9.00am to 11.00 am  
2 hours

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

Part A

- 1 1.1 Discuss the pathogenesis of infective endocarditis. (35 marks)  
1.2 Describe the macroscopic changes seen in the heart in infective endocarditis. (30 marks)  
1.3 Describe the extra-cardiac complications of infective endocarditis (35 marks)

Part B

- 2 2.1 Write a note on Barrett's oesophagus. (30 marks)  
2.2 Describe the macroscopic and microscopic features of the  
2.2.1 large intestine in ulcerative colitis. (35 marks)  
2.2.2 lung in bronchiectasis. (35 marks)

Part C

- 3 Describe the pathological basis of the following.  
3.1 Deep vein thrombosis following major surgery. (35 marks)  
3.2 Erythema and oedema in cellulitis. (35 marks)  
3.3 Haemoptysis in a patient with post primary pulmonary tuberculosis. (30 marks)

Part D

- 4 A 20 year old male was admitted to a surgical casualty unit following a road traffic accident. He collapsed on admission. On examination he was pale. Pulse was rapid and thready. Blood pressure was un-recordable. Abdominal examination findings were consistent with intra-abdominal haemorrhage.  
4.1 Following an emergency laparotomy he was admitted to the ICU. During the first post operative day he developed oliguria. Explain the pathological basis of oliguria in this patient. (30 marks)  
4.2 The next day he developed rapid shallow breathing and the clinician wanted to perform blood gas analysis. State how you would collect blood for blood gas analysis and indicate the expected findings in this situation. (20 marks)  
4.3 On the third day he developed oozing from venipuncture sites and gum bleeding. What is the probable condition he is having now? Describe the pathological basis of these observations. (30 marks)  
4.4 State four tests you would request in this patient in relation to the new manifestations given in 4.3 indicating the expected findings. (20 marks)