



Faculty of Medicine, University of Ruhuna, Galle.
Third Examination for Medical Degrees (Part II) December 2007

Pathology Paper I

Tuesday 4th December 2007

9.00am to 11.00 am
2 hours

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

Part A

- 1 1.1.1 List **five** causes of cell injury. (15 marks)
- 1.1.2 Describe the microscopic appearances of cells/tissues following cell injury. (45 marks)
- 1.2 Briefly describe the process of healing of a surgical incision. (40 marks)

Part B

- 2 2.1 Describe the macroscopic and microscopic appearances of large and small arteries in a patient with severe atherosclerosis. (50 marks)
- 2.2 Give an account on cerebral oedema. (50 marks)

Part C

- 3 Write notes on the following.
- 3.1 Colorectal carcinoma. (50 marks)
- 3.2 Compare and contrast ulcerative colitis and Crohn's disease. (30 marks)
- 3.3 Complications of lobar pneumonia. (20 marks)

Part D

- 4 4.1 An 8-year old boy presented with a one week history of high fever and gum bleeding. On examination he had pallor, purpura, generalized lymphadenopathy and hepatosplenomegaly.
- 4.1.1 What is the most probable diagnosis? (10 marks)
- 4.1.2 Explain the pathological basis of purpura and pallor in this patient. (20 marks)
- 4.1.3 Explain how you would confirm the diagnosis mentioned in 4.1.1 (20 marks)
- 4.2 A 55 year old lady was admitted to the surgical casualty ward with cellulitis of the left lower limb. She had no significant past medical history. Her random plasma glucose was 250mg/dl. (13.9 mmol/l).
- 4.2.1 Mention the most likely metabolic disorder this patient may be having. (5 marks)
- 4.2.2 Explain how you would confirm the diagnosis mentioned in 4.2.1 (15 marks)
- 4.2.3 List **three other** baseline biochemical investigations you would request for this patient relevant to the metabolic disorder mentioned in 4.2.1. Briefly explain the rationale and the sample collection requirements for the investigations you have mentioned. (30 marks)