



Faculty of Medicine
University of Ruhuna
Third Examination for Medical Degrees - Part II
September- 2011

Pathology Paper I

Wednesday 14th September 2011
9.00am to 11.00 am
2 hours

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

Part A

1. A 50 year old male has died of cerebrovascular accident. He has had a myocardial infarction five years ago. The following were some of the postmortem findings of this person.
- a) An aneurysm in the left ventricle with a large laminated thrombus.
 - b) Ulcerated atherosclerotic plaques in the aorta.
 - c) Chronic venous congestion of the liver.
- 1.1 Explain the pathological basis of the following in this patient.
- 1.1.1 cerebrovascular accident *(25 marks)*
 - 1.1.2 aneurysm with a laminated thrombus *(25 marks)*
 - 1.1.3 chronic venous congestion of the liver *(20 marks)*
- 1.2 Describe the microscopic appearances of the following organs of this person
- 1.2.1 Liver *(15 marks)*
 - 1.2.2 Lung *(15 marks)*

Part B

- 2 Write notes on
- 2.1 primary pulmonary tuberculosis *(40 marks)*
 - 2.2. osteomyelitis. *(30 marks)*
 - 2.3 ovarian tumours. *(30 marks)*

Part C

3

- 3.1 State the most likely type of anaemia expected in a 52 year- old male who has Hb 7.5 g/dl and positive test for stool occult blood. (05 marks)
- 3.2 Discuss how you would investigate this patient to identify the type of anaemia indicating the expected findings. (45 marks)
- 3.3 List **five** lesions/pathological conditions which can cause positive stool occult blood test. (10 marks)
- 3.4 Describe macroscopic and microscopic appearances of one of the lesions/ conditions stated in 3.3. (40 marks)

Part D

- 4 4.1 List **two** types of glomerulonephritis which cause nephritic syndrome in adults. (10 marks)
- 4.2 Describe the aetio-pathogenesis of one of the types you stated in 4.1. (30 marks)
- 4.3 Describe briefly the microscopic features of the kidney in the type of glomerulonephritis you described in 4.2. (15 marks)
- 4.4 List **five** biochemical tests that should be done in a patient with nephritic syndrome. (10marks)
- 4.5 Describe the requirements in sample collection for the tests listed in 4.4 (10marks)
- 4.6 Describe the pathological basis of the expected findings in the tests listed in 4.4. (25marks)