

Faculty of Medicine, University of Ruhuna, Galle.

Third Examination for Medical Degrees (Part II) February 2004

Pathology Paper I

Friday 6th February 2004

9.00am to 11.00 am 2 hours

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

1. Write notes on

Cerebral infarction.

(25 marks)

1.2 Hepatocellular necrosis. (25 marks)

1.3 Osteomyelitis. (25 marks)

1.4 Chronic inflammation. (25 marks)

Part B

- A 50 year-old male was admitted to a medical ward with a severe chest pain while awaiting coronary bypass surgery. He died on the 7th day following admission. He was known to have diabetes mellitus and hypertension.
 - Give one probable cause of death in this patient. 2.1

(10 marks)

- Discuss the pathogenesis of the lesion that indicated a coronary bypass surgery. 2.2 (40 marks)
- Describe the macroscopic and microscopic changes seen in the heart and 2.3 lungs of the deceased. (50 marks)

Part C

- A 75 year-old male was found to have a compression fracture of a lumbar vertebra. 3 3.1 Digital examination of the rectum revealed an enlarged, hard prostate gland. His serum tartrate labile acid phosphatase concentration was elevated.
 - 3.1.1 a) What is the diagnosis?

(05 marks)

b) Explain the pathological basis of his clinical features.

(30 marks)

3.1.2 List the investigations you would do to confirm the diagnosis.

(20 marks)

3.1.3 List three other causes of compression fracture of vertebrae.

(15 marks)

3.2 Write a note on para-neoplastic syndrome. (30 marks)

Part D

What is uraemia? 4.1

chronic renal failure.

4.3

(5 marks)

List the three broad categories of causes of uraemia giving an example for 4.2 each category. (15 marks)

What are the disturbances seen in serum potassium and bicarbonate in

(20 marks)

Explain the pathophysiology of the biochemical changes leading to renal 4.4 osteodystrophy in chronic renai failure.

(30 marks)

Briefly describe the pathogenesis of anaemia in chronic renal failure. 4.5

(30 marks)