



Faculty of Medicine University of Kuluha
Third Examination for Medical Degrees (Part II) – July / August 2018
Pathology Paper I

Monday 30th July 2018

9.00 am to 11.00 am
Two hours

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

Part A

1.
 - 1.1 List **three** types of non-neoplastic polyps in the colon. *(10 marks)*
 - 1.2 Compare and contrast the microscopic appearance of adenomatous polyps and colorectal carcinoma. *(20 marks)*
 - 1.3 Describe the pathological basis of the different clinical presentations of colorectal carcinoma in relation to the part of the colon involved. *(40 marks)*
 - 1.4 Briefly describe the pathogenesis of colorectal carcinoma. *(30 marks)*

Part B

2.
 - 2.1 Describe the pathogenesis of atherosclerosis. *(50 marks)*
 - 2.2 Explain the pathological effects of atheromatous plaques in the
 - 2.2.1 carotid arteries. *(20 marks)*
 - 2.2.2 abdominal aorta. *(30 marks)*

Part C

3.
 - 3.1 Compare and contrast primary pulmonary tuberculosis and post primary pulmonary tuberculosis. *(60 marks)*
 - 3.2 Describe the macroscopic and microscopic appearance of kidneys in chronic pyelonephritis. *(40 marks)*

Part D

4.
 - 4.1 Haemolytic anaemia is a common clinical condition you will see in clinical practice.
 - 4.1.1 Define haemolytic anaemia. *(10 marks)*
 - 4.1.2 State briefly how haemolytic anaemia is classified. *(10 marks)*
 - 4.1.3 List **four** different laboratory findings you would expect to see in all types of haemolytic anaemia (except findings in Full Blood Count). *(10 marks)*
 - 4.1.4 Explain the pathological basis of two of the findings you mentioned in 4.1.3 above.

4.2

4.2.1 Define "acute kidney injury".

(10 marks)

4.2.2 Name the **three** pathogenic mechanisms leading to acute kidney injury giving examples for each mechanism.

(15 marks)

4.2.3 State **four** first line biochemical tests you would request for a patient presenting with acute kidney injury and explain the pathological basis for the expected alterations in each test.

(20 marks)

4.2.4 List **two** important biochemical parameters you would monitor in a patient with acute kidney injury for staging of the disease severity.

(05 marks)