



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE
Final Examination for Medical Degrees – FEBRUARY 2020
SURGERY - PAPER I

Thursday 18th June 2020

3 hours (1.00 p.m. to 4.00 p.m.)

Answer ALL FIVE Questions.

Answer each part in a *SEPARATE* answer book.

Part A

1. A 50-years-old woman with Type 2 Diabetes mellitus underwent exploratory laparotomy for small bowel malignancy.
On post-operative day 04, she developed fever, productive cough and pleuritic type chest pain. On examination, she was found to be breathless.
 - 1.1 Define sepsis, septic shock and qSOFA score. (15 marks)
 - 1.2 List two (02) other expected clinical findings each in respiratory and cardiovascular systems in this patient. (10 marks)
 - 1.3 Discuss the management of this patient within the first hour. (40 marks)
 - 1.4 List four (04) investigations and their justification. (20 marks)
 - 1.5 Briefly explain three (03) additional therapies you would consider in the management. (15 marks)

Part B

2. A 45-year-old man presents with severe left sided colicky abdominal pain and a single episode of haematuria. The X-Ray kidney-ureter-bladder (KUB) reveals a 1 cm radio opaque shadow at the tip of the left transverse process of the third lumbar vertebra.
 - 2.1 Which signs and symptoms would help you to arrive at a diagnosis of left ureteric colic? (25 marks)
 - 2.2 Outline the investigations giving reasons that should be performed on this patient. (25 marks)
 - 2.3 Outline the management of this patient. (50 marks)

Part C

3.

- 3.1 List five (05) circumstances under which spinal injuries would occur giving examples. (20 marks)
- 3.2 State ten (10) important signs and symptoms of a spinal cord injury at the level of 7th cervical vertebra. (20 marks)
- 3.3 Name four (04) categories of patients with spinal injuries who are difficult to assess. (20 marks)
- 3.4 Enumerate five (05) early and five (05) late complications of a spinal cord injury. (20 marks)
- 3.5 Briefly explain four (04) objectives of rehabilitation following spinal cord injuries. (20 marks)

Part D

4. A 30-year-old-man is admitted with a history of receiving a heavy blow on the right side of the chest of an hour ago. He complains of right sided chest pain and difficulty in breathing. On examination he is dyspnoic and tachypnoic. His pulse rate is 120 beats/min, blood pressure is 90/50 mm/Hg. Air entry is reduced on the right side of the chest.

Describe the management of this patient.

(100 marks)

Part E

5. A 64-year-old man who is on long term treatment for arthritis complains of sudden onset severe epigastric pain with nausea and vomiting. He is a heavy smoker. Pain gradually worsened. It exacerbates on movements. He feels dizzy on standing.

5.1 List four (04) conditions that you would include in the diagnosis.

(20 marks)

5.2 What clinical features would you obtain in the history and examination to arrive at the diagnosis?

(30 marks)

5.3 His temperature is 99⁰F, pulse rate is 120 beats/min, blood pressure is 90/70 mg /Hg. He has a tender, rigid abdomen. He has not passed urine since admission. There is gas under the diaphragm on erect chest x-ray.

How would you manage this patient in the casualty surgical ward?

(50 marks)