



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE
Final Examination for Medical Degrees – MARCH 2022
SURGERY - PAPER I

Thursday 16th March 2022

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 30-year-old man is admitted to emergency department having hit by a car while crossing a road.

1.1 Briefly explain **three (03)** types of physical impacts he would have been subjected to and two likely injuries from each of them. (30 marks)

Patients' pulse rate is 114 bpm and blood pressure is 120/90 mmHg. He also has tenderness over left lower chest wall and distended abdomen.

1.2 What is the class of shock? (10 marks)

1.3 What is the most likely organ injured? (10 marks)

1.4 State **two (02)** important investigations in order to make a decision to operate, listing one advantage and one disadvantage for each. (30 marks)

1.5 Briefly explain the rationale behind the 'Golden Hour'. (20 marks)

Part B

2. A 50 Year-old women presented with right hypochondrial pain, yellowish discolouration of eyes, pale stools, and pruritus for 3 weeks duration.

2.1 List **two (02)** benign and **two (02)** malignant causes for above presentation. (20 marks)

2.2 Enumerate **four (04)** biochemical and **four (04)** radiological investigations to arrive at a diagnosis. (40 marks)

2.3 List **four (04)** complications of the above condition. (20 marks)

2.4 Briefly describe the management of one of the complications mentioned in 2.3. (20 marks)

Part C

3. A 60-year-old man attends the surgical clinic complaining of a cramping pain in the right calf on walking 300 meters. It is relieved by rest and is reproduced after walking the same distance. He is not suffering from any rest pain or night pain.

On examination there are no skin changes in the right leg. The right femoral pulse is present but the right popliteal, dorsalis pedis and posterior tibial pulses are absent. There is no ulceration or gangrene affecting feet.

3.1 What is the most likely diagnosis? (15 marks)

3.2 List **ten (10)** important points you would look in the assessment of this patient. (40 marks)

3.3 State **three (03)** specific investigations of value when assessing severity. (15 marks)

3.4 Briefly outline the management of the above patient. (30 marks)

Part D

4. A 56-year-old patient with type 2 diabetes mellitus and a hypertension underwent an exploratory laparotomy for large bowel obstruction.

On post-operative day 3, he develops fever, productive cough and pleuritic type chest pain on the right side. His heart rate is 100 bpm and the blood pressure is 110/70 mmHg.

- 4.1 What is the most likely diagnosis ? *(10 marks)*
- 4.2 What is the **scoring system** that you would use during the initial assessment of this patient? *(10 marks)*
- 4.3 State the value of using above scoring system. *(10 marks)*
- 4.4 Outline the **initial management**. *(40 marks)*
- 4.5 Briefly explain **five (05) important steps** in the subsequent management. *(30 marks)*

Part E

5. A 40-year-old man presents with right loin pain of 3 months duration. He is free of comorbidities and examination was unremarkable. X-ray KUB shows a 4cm stag horn calculus in the pelvis of the right kidney.

Outline the management of this patient. *(100 marks)*