

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (SURGERY) EXAMINATION – OCTOBER 2025

Date:- 8th October 2025

Time:- 9.30 a.m. - 11.30 a.m.

STRUCTURED ESSAY QUESTION PAPER

Answer all four (04) questions.

Answer each question in a separate book.

1. Write notes on:

1.1. Prehabilitation in surgical practice. (50%)

1.2. Never events in surgery. (50%)

2. A 35-year-old man is brought to the emergency department of a tertiary care hospital after a high-speed motor vehicle collision. He is agitated, has multiple facial fractures, is bleeding from the mouth, and has laboured breathing. His oxygen saturation is 88% on high-flow oxygen.

2.1. Discuss the management of his airway during the primary survey. (50%)

During the secondary survey he is found to have a closed fracture of the left upper tibia with absent ipsilateral pedal pulses.

2.2. Discuss the management of this injury. (50%)

3. A 32-year-old woman develops generalized abdominal pain, distension and tenderness with guarding on the third post operative day after her 2nd LSCS. Her pulse rate is 130 beats/minute, blood pressure is 85/50 mmHg and respiratory rate is 30/minute.

3.1. Outline her management in the first 24 - 48 hours. (50%)

The patient subsequently develops a persistent discharge from the incision. A high output enterocutaneous fistula is suspected.

3.2. Outline her management. (50%)

Contd..../2-

4. A 45-year-old man is investigated for recurrent urinary calculi.

His serum biochemistry is given below:

Ionized Ca ²⁺	1.8 mmol/L	(1.1 - 1.4)
PO ₄ ³⁻	0.75 mmol/L	(0.81 - 1.45)
PTH	566 pg/mL	(10 - 65)
Vitamin D	60 nmol/L	(50 - 100)
Creatinine	0.8 mg/dL	(0.6 - 1.2)

4.1. Discuss his management. (60%)

He undergoes surgery for the above condition. Postoperatively he develops carpopedal spasms. His serum ionized Ca²⁺ is 0.8 mmol/L.

4.2. Outline the pathophysiology of his hypocalcaemia. (20%)

4.3. Outline the management of hypocalcaemia. (20%)