

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (SURGERY) EXAMINATION – SEPTEMBER/OCTOBER 2023

Date:- 27th September 2023

Time:- 9.30 a.m. – 11.30 a.m.

ESSAY PAPER

Answer all four (04) questions.

Answer each question in a separate book.

1. A 50-year-old man with a body mass index (BMI) of 32, a current smoker (10 pack years) with hypertension had two episodes of acute cholecystitis over the last 6 months. He was hospitalized for 8 days during the second episode and was in the intensive care unit with sepsis.

He is to be discharged today after the second admission.

- 1.1. Briefly describe his management plan on discharge. (20%)
- 1.2. If surgery is decided upon, list the issues that would increase the risk of conversion to open surgery. (30%)

On admission for surgery, his investigations indicate as given below.

Liver profile

Aspartate aminotransferase	30 IU/L	(0 - 50)
Alanine aminotransferase	37 IU/L	(0 - 45)
Alkaline phosphatase	420 IU/L	(90 - 300)
Albumin	37 g/L	(35 - 55)
Total bilirubin	57 µmol/L	(3 - 20)

Ultrasound scan of the abdomen

Thick-walled gall bladder containing multiple calculi. No pericholecystic fluid. Common bile duct is not visualized. Intrahepatic ducts are marginally dilated.

- 1.3. What further investigation would you consider during this admission giving reasons. (10%)
- 1.4. Discuss further management of this patient, including surgical options. (40%)

2. A 45-year-old woman with a family history of breast cancer (both her mother and grandmother were diagnosed at ages 40 and 65 years, respectively) presents with a lump with ill-defined margins with skin tethering, in the upper outer quadrant of her right breast. There is a palpable axillary node. She has two daughters aged 23 and 21 years, respectively.

- 2.1. What is the most likely diagnosis? (10%)
- 2.2. How would you confirm the diagnosis? (20%)
- 2.3. List treatment options that are available for this patient. (20%)
- 2.4. How do the clinical findings and results from the diagnostic tests influence the choice of surgical treatment? (30%)
- 2.5. What advice would you give her daughters, giving reasons. (20%)

3. A 30-year-old man who is involved in a high-speed motorcycle accident is admitted to the emergency treatment unit. He has a comminuted open fracture of the left tibia (midshaft), with extensive soft tissue injury and an avascular, but sensate foot. He is pale and the blood pressure is 100/80 mmHg. His pulse rate is 120 beats/minute.

He also has an open fracture dislocation of the right midfoot (Lisfranc injury) with intact vascularity.

- 3.1. Discuss the management of this patient in the first 24 hours. (50%)
- 3.2. Outline the possible definitive management options for this patient. (30%)
- 3.3. What information would you provide to the patient regarding the likely outcome of treatment for each injury. (20%)

4. A 65-year-old hypertensive male patient presents with poor urinary flow for last 9 months. He has no other comorbid factors.

- 4.1. List five (05) possible causes of poor urinary flow in this patient. (20%)
- 4.2. List five (05) investigations to arrive at a definitive diagnosis. (20%)
- 4.3. Discuss how the above investigations would help you in the management. (30%)
- 4.4. Outline the management of this patient. (30%)