

**POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO**

**MD (SURGERY) EXAMINATION
FEBRUARY 2020**

Date: 11th February 2020

Time: 9.30 am – 11.30 am

Answer ALL questions

Answer each question in a separate book

1. A 50-year-old female is found to have a cluster of pleomorphic microcalcifications in a 1.1 x 0.9 cm sized lesion in the upper outer quadrant of her left breast at screening mammography. Her breasts and axillae are clinically normal.
 - 1.1 Discuss the further investigation of this patient. (60%)
 - 1.2 What is a one-stop breast clinic? Outline the key components of a one-stop breast clinic. (40%)

2. A 45-year-old man presents with fever, chills and rigors and severe left loin pain. His temperature is 39°C and he has tenderness over the left costovertebral angle.

His investigation results:

 - White cells: 20,000/mm³ (normal 4 – 11,000 / mm³) Neutrophils – 89%
 - Random blood sugar: 350 mg/dl (normal < 180mg/dl)
 - Serum creatinine: 250 µmol/l (normal <120 µmol/l)
 - USS KUB (done one year ago): contracted right kidney and a normal sized left kidney
 - X-ray – KUB: one (1) cm radio-opaque shadow at the tip of the left 4th lumbar vertebral transverse process.
 - 2.1 Identify the clinical problems in this patient. (30%)
 - 2.2 Discuss the management of this patient. (70%)

3. A 48-year-old female presents with an acute abdomen one week after a laparoscopic hysterectomy. Following resuscitation, laparotomy revealed a perforation in the distal ileum which was repaired primarily. On the 6th post-operative day, discharge of small bowel contents is noted at the abdominal incision.

3.1 Discuss the management of this patient. (70%)

3.2 Outline how the complication following the laparotomy could have been prevented. (30%)

4. A 25-year-old male is brought to the A&E 15 minutes after a high velocity RTA. A semi rigid cervical collar has been applied and he answers when questioned. There is bruising over the left lower chest. His respiratory rate is 20 /min, blood pressure 100/60 mmHg and pulse rate 90/min.

4.1 Describe the initial assessment and management of this patient (30%)

4.2 State five life-threatening injuries specific to this patient. (10 %)

His parameters after 60 minutes are:

- Respiratory rate - 30 / min
- Pulse rate - 110/ min
- BP - 90/70 mmHg

4.3 Outline the pathophysiological basis for the lowered pulse pressure (20%)

4.4 Describe the further management of this patient (40%)