

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (SURGERY) EXAMINATION – FEBRUARY 2021

Date: 9th February 2021

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 35-year-old man was brought to the emergency department one hour after sustaining a crush injury to the lower half of his body by a collapsed brick wall. His respiratory rate was 16/min, blood pressure was 110/80 mm Hg and pulse rate was 100/minute. The initial X-rays of both lower limbs including the pelvis showed posterior dislocation of right hip joint and a stable 'open book' type injury of the symphysis pubis with no other associated fractures. After initial resuscitation with fluids, patient became haemodynamically normal.
 - 1.1 Describe how you would further evaluate and monitor this patient. (50%)
 - 1.2 Describe the management of this patient during the next 24 hours assuming that there are no injuries other than what is mentioned above. (50%)

2. A 60-year-old man has undergone a laparoscopic anterior resection of the rectum, eight weeks after neoadjuvant chemo-irradiation. He complains of abdominal pain on the fourth day after surgery.
 - 2.1 Describe the clinical features on which you would suspect an anastomotic leak (20%)
 - 2.2 Explain giving reasons, the investigations that you would do to confirm your clinical suspicion. (20%)
 - 2.3 Outline the management of anastomotic leaks after anterior resection (30%)
 - 2.4 Describe the preventive measures that will be useful to prevent this complication (30%)

3. A 75-year-old male diagnosed with carcinoma of the prostate presents with a urine output of 50 ml/24 hours and intractable back pain. He has a serum creatinine of 3.5 mg/dl (normal 0.5 – 1.0). The abdominal ultrasound scan reveals bilateral moderate hydronephrosis. He has had a bilateral orchidectomy for the said malignancy 2 years back and has been apparently well until one week before his presentation. He has defaulted follow up since the surgery.

3.1 Indicate the clinical problems of this patient with probable causative factors. (30%)

3.2 List the investigations that would be useful in this patient, giving reasons. (20%)

3.3 Outline the treatment of this patient. (50%)

4. Write notes on:

4.1 Diagnostic imaging and interventional treatment modalities for intussusception in children. (50%)

4.2 Measures to be adopted when operating on a patient with COVID-19. (50%)