

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO
SELECTION EXAMINATION IN MD (SURGERY)
FEBRUARY 2016

Date : 9th February 2016

Time : 9.30a.m. – 11.30a.m.

PAPER I

ANATOMY

Answer all questions.

Answer each question in a separate book

1. Describe the anatomy of the extrahepatic biliary system excluding its development.
2. Describe the anatomy of the submandibular gland.
3.
 - 3.1 Describe the anatomy of the femoral triangle. (60%)
 - 3.2 Outline the arrangement of the inguinal lymph nodes and describe their afferent drainage. (40%)
4.
 - 4.1 Describe the anatomy of the superior mediastinum. (60%)
 - 4.2 Outline the alternate venous pathways following superior vena caval obstruction at its entry into the right atrium. (40%)

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PAPER II

PART A - PHYSIOLOGY

Answer all questions.

Answer each question in a separate book.

1. Discuss how blood volume and pressure are regulated in a healthy individual.

2.
 - 2.1 Explain the physiological basis of the changes that occur during overnight fasting for a surgical procedure. (40%)
 - 2.2 Explain the basis for an elevated respiratory rate in a patient with haemopneumothorax following a stab injury. (30%)
 - 2.3 Explain the physiological mechanisms that prevent peptic ulcer formation. (30%)

3.
 - 3.1 Explain the basis for the development of bone mineral disorder (renal osteodystrophy) in patients with chronic renal failure. (40%)
 - 3.2 Explain the basis for the following observation:
Hypotonia followed by hypertonia of lower limbs in a traumatic thoracic spinal cord injury. (30%)
 - 3.3 Describe the events that occur following a traumatic injury to a blood vessel. (30%)

PAPER II
PART B – PATHOLOGY

Answer all questions.

Answer each question in a separate book.

4. Discuss how pathological information could be utilized in the management of malignancies.

5.
 - 5.1 Describe how the acute inflammatory response helps in the healing of injured tissue. (40 %)

 - 5.2 Outline the healing process in the following situations.
 - 5.2.1 Renal acute tubular injury following hypovolaemia. (20 %)
 - 5.2.2 Cerebral infarction. (20 %)
 - 5.2.3 Massive liver necrosis. (20 %)

6. A 75-year-old male with diabetes and hypertension presented with abdominal pain and back pain of two months duration. The abdominal examination revealed a palpable pulsatile lump.
 - 6.1 What is the most likely diagnosis? (10%)
 - 6.2 Describe the pathogenesis of the condition mentioned in 6.1. (60%)
 - 6.3 Outline the complications of the condition mentioned in 6.1. (30%)