

**Postgraduate Institute of Medicine
University of Colombo**

**Selection Examination in MD (Surgery)
July 2016**

Date: 26th July 2016

Time: 9.30 am – 11.30 am

**Paper I
ANATOMY**

Answer all questions.

Answer each question in a separate book

1.

1.1 Describe the course, relations and distribution of the extracranial part of the facial nerve. (70%)

1.2 Write notes on the clinical significance of the extracranial part of the facial nerve (30%)

2. Describe the anatomical spaces in the hand and fingers and their clinical significance

3. Describe the anatomy of the thoracic part of oesophagus (exclude its development)

4.

4.1 Describe the anatomy of the scrotum and its contents (exclude histology) (70%)

4.2 Write notes on developmental abnormalities of the testis. (30%)

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**Paper II
Part A- PHYSIOLOGY**

Answer all questions.

Answer each question in a separate book

1. Describe the physiological mechanisms which prevent abnormal gastro-esophageal reflux and the basis of its pharmacological treatment.

2.
 - 2.1 Describe the mechanisms that maintain the blood flow to an exercising muscle. (50 %)
 - 2.2 Explain the physiological basis of neuromuscular junction blockade and its reversal. (50 %)

3.
 - 3.1 Describe the ventilation-perfusion ratio of the lung in a healthy individual. (20 %)
 - 3.2 Explain the ventilation-perfusion mismatch that occurs in
 - 3.2.1 pulmonary embolism
 - 3.2.2 acute pulmonary oedema (30 %)
 - 3.3 Describe the renal tubular mechanisms that maintain the water balance in a healthy individual. (50 %)

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Part B- PATHOLOGY

Answer all questions.

Answer each question in a separate book

4. Discuss the pathogenesis of septic shock

5.

5.1 Describe the molecular basis of carcinogenesis (70%)

5.2 Outline the pathogenesis of colorectal cancer (30%)

6. Write notes on the following.

6.1 Factors causing delayed wound healing (40%)

6.2 Pathological processes of hepatomegaly (30%)

6.3 Pathophysiology of testicular torsion (30%)