

MASTER COPY

**POSTGRADUATE INSTITUTE OF MEDICINE**  
**UNIVERSITY OF COLOMBO**

**SELECTION EXAMINATION IN MD (OPHTHALMOLOGY) – MARCH 2016**

**Date: 28 March 2016**

**Time: 1.00 p.m. – 4.00 p.m.**

**STRUCTURED ESSAY PAPER**

Answer all questions in Parts A, B and C.

Answer **each** question in a separate answer book.

**PART A (ANATOMY)**

1.
  - 1.1 What are the functional components of the third cranial nerve? (15%)
  - 1.2 Briefly describe the origin and course of the oculomotor nerve with its relations. (70%)
  - 1.3 What are the clinical manifestations of a complete third cranial nerve palsy. (15%)
2.
  - 2.1 Describe briefly the arrangement of lymphatics in the head and neck region. (70%)
  - 2.2 How does this knowledge become applicable in clinical practice. (30%)

**Contd...../2-**

**PART B (PHYSIOLOGY)**

3.

3.1 A 60 year old male experienced a severe pain in the inner aspect of his left arm at the time of myocardial infarction. Explain the physiological basis of this phenomenon. (60%)

3.2 Morphine was given as an analgesic and the pain decreased substantially. Explain the physiological mechanism of opioids in the relief of pain. (40%)

4. A 30 year old male was admitted to the hospital with excessive bleeding following a road traffic accident. Examination revealed cold and clammy peripheries with rapid thready pulse. His blood pressure was 90/70 mm Hg.

4.1 Explain the physiological basis for

a) Blood pressure of 90/70 mmHg. (25%)

b) Rapid thready pulse. (15%)

c) Cold and clammy peripheries. (15%)

4.2 Explain with reasons the changes in kidney function you will expect in this patient. (45%)

**Contd...../3-**

**PART C (PATHOLOGY)**

5.

5.1 Describe the etiopathogenesis of venous thrombosis giving examples. (60%)

5.2 Discuss the clinicopathological effects of venous thrombosis. (40%)

6.

Write notes on

6.1 Staphylococcal infections encountered in a medical ward. (50%)

6.2 Type IV hypersensitivity reaction. (50%)