

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (SURGERY) – JULY 2019

Date :- 9th July 2019

Time :- 9.30 a.m. – 11.30 a.m.

PAPER I

ANATOMY

Answer all four (04) questions.

Answer each question in a separate book.

1.
 - 1.1. Describe the gross anatomy of the sternocleidomastoid muscle. (70%)
 - 1.2. Outline its clinical significance. (30%)
2.
 - 2.1. Describe the anatomical relations of the left bronchus. (70%)
 - 2.2. Outline the surface marking of the pleura. (30%)
3. Give an account of gross anatomy of the pelvic floor. (100%)
4. Describe the venous drainage of the lower limb. (100%)

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (SURGERY) – JULY 2019

Date :- 9th July 2019

Time :- 1.00 p.m. – 4.00 p.m.

PAPER II

PART A (PHYSIOLOGY)

Answer all three (03) questions.

Answer each question in a separate book.

1. Discuss the physiological compensatory mechanisms that defend the volume and tonicity of extracellular fluid in isotonic versus hypotonic volume expansion. (100%)

2.
 - 2.1. Explain the physiological basis for the following.
 - 2.1.1. A patient with lobar pneumonia developing hypoxaemia. (40%)
 - 2.1.2. Botulinum toxin causing muscle paralysis. (30%)
 - 2.2. Describe the *in vivo* thrombolytic pathway. (30%)

3.
 - 3.1. Explain the physiology of vomiting. (40%)
 - 3.2. Outline the basis for
 - 3.2.1. the non-surgical management of hyperthyroidism. (40%)
 - 3.2.2. the use of dopamine in cardiogenic shock. (20%)

PART B (PATHOLOGY)

Answer all three (03) questions.

Answer each question in a separate book.

4. Describe the pathological basis of the clinical features seen in necrotizing soft tissue infections. (100%)

5.
 - 5.1. Describe the process of fibrosis. (50%)
 - 5.2. Outline giving examples, the outcome of fibrosis in the gastro-intestinal tract. (50%)

6. Write notes on the following.
 - 6.1. Use of immunohistochemistry in surgical practice (30%)
 - 6.2. Behavioural properties of cancer cells (30%)
 - 6.3. Pathogenesis of a neuropathic foot ulcer in diabetes mellitus (40%)