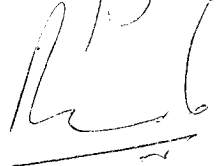


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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (SURGERY) EXAMINATION – JULY 2017

Date :- 18th July 2017

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. Describe the anatomy of the external carotid artery excluding its histology.

2. Describe the relations of the duodenum.

3.
 - 3.1. Describe the gross anatomy of the adult female breast. (70%)
 - 3.2. Outline the clinical significance of the lymphatic drainage. (30%)

4.
 - 4.1. Describe the anatomy of the posterior compartment of the arm. (70%)
 - 4.2. Describe the arterial anastomoses around the elbow joint. (30%)

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POSTGRADUATE INSTITUTE OF MEDICINE
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SELECTION EXAMINATION IN MD (SURGERY) EXAMINATION
JULY 2017

Date :- 18th July 2017

Time :- 1.00 p.m. – 4.00 p.m.

PAPER II

PART A (PHYSIOLOGY)

Answer all questions.

Answer each question in a separate book.

1. Discuss the mechanisms of development of **hypoxaemia** in an adult.

2.
 - 2.1. Describe the physiological changes that occur in the urinary tract and the kidney with aging in the adult, and relate them to the clinical consequences. (50 %)
 - 2.2. Describe the physiological mechanisms of pain modulation. (50 %)

3.
 - 3.1. Explain the reasons for elevated blood pressure and hypokalaemic alkalosis in a patient with primary hyperaldosteronism. (40%)
 - 3.2. Explain the physiological basis of steatorrhea in chronic pancreatitis. (30%)
 - 3.3. Describe the physiological basis for rupture of aortic aneurysms. (30%)

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PART B (PATHOLOGY)

Answer all questions.

Answer each question in a separate book.

4. Discuss the role of blood vessels in the pathogenesis of different pathological process.

5. A 35-year-old man presented with fracture femur and multiple lacerated skin wounds following a road traffic accident.
 - 5.1. Describe the process of healing of a fracture by callus formation. (40%)
 - 5.2. Explain the reasons for impaired union of fractures. (30%)
 - 5.3. List the surgical interventions that would facilitate healing of lacerated skin wounds explaining the pathological basis for each. (30%)

6.
 - 6.1. Briefly describe the aetiopathogenesis of fistulae formation. (30%)
 - 6.2. Outline the pathological processes leading to solid organ enlargement. (40%)
 - 6.3. Briefly describe the pathophysiological basis of transfusion reactions. (30%)