

9/17/18

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

9/17/18

SELECTION EXAMINATION IN MD (SURGERY) JULY, 2018

Date: 10th July 2018

Time: 9.30 am – 11.30 am

PAPER I
ANATOMY

Answer all questions.

Answer each question in a separate book.

1. Describe the deep cervical fasciae and discuss their clinical relevance.

2.
 - 2.1. Define the boundaries of the posterior mediastinum. (20%)
 - 2.2. Describe the descending thoracic aorta and its relations. (50%)
 - 2.3. Describe the collateral circulation in coarctation of the aorta. (30%)

3. Describe the gross anatomy of the pancreas emphasizing the clinical relevance of the relations of the head of the pancreas.

4.
 - 4.1. Describe the anatomy of the popliteal fossa. (50%)
 - 4.2. Describe the course and distribution of the common peroneal nerve. (25%)
 - 4.3. Discuss the etiology and the manifestations of the common peroneal nerve injury. (25%)

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9/7/18

POSTGRADUATE INSTITUTE OF MEDICINE
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SELECTION EXAMINATION IN MD (SURGERY) JULY, 2018

Date: 10th July 2018

Time: 1.00 pm – 4.00 pm

PAPER II
PART A - PHYSIOLOGY

Answer all questions.

Answer each question in a separate book.

1. Explain the multifactorial nature of pain, the mechanism of action of neurotransmitters and the basis of different methods of analgesia

2. Explain the physiological basis of the following.
 - 2.1 Increase in cardiac output observed during exercise in a patient with a transplanted heart (40%)
 - 2.2 Inability to withstand starvation in a patient with adrenal insufficiency (40%)
 - 2.3 Use of proton pump inhibitors in the treatment of peptic ulcers (20%)

3.
 - 3.1 Explain the mechanisms by which renin secretion is increased during severe haemorrhage (60%)
 - 3.2 Explain the physiological basis of getting the patient to perform a Valsalva manoeuvre during the removal of an intercostal tube (40%)

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PART B - PATHOLOGY

Answer all questions.

Answer each question in a separate book.

4. Describe the causes and pathological processes involved in bowel perforation of ileocaecal region.

5.
 - 5.1 Discuss the process of healing of split thickness skin graft donor site on the thigh. (50%)
 - 5.2 Describe the role of macrophages in chronic inflammation. (50%)

6.
 - 6.1 Outline the techniques available in obtaining material for pathological diagnosis from a suspected malignant lesion (30%)
 - 6.2 Describe pathogenesis of urolithiasis (40%)
 - 6.3 Outline the aetio-pathogenesis of oesophageal strictures. (30%)