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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (SURGERY) FEBRUARY, 2017

Date: 15th February 2017

Time: 9.30 a.m. – 11.30 a.m.

PAPER I
ANATOMY

Answer all questions.

Answer each question in a separate book.

1. Describe the anatomy of the posterior triangle of the neck with its clinical significance.

2.
 - 2.1 Describe the gross anatomy of the hilum of the right lung. (50%)

 - 2.2 Describe the development of the diaphragm and its developmental anomalies. (50%)

3. Describe the gross anatomy of the right kidney and the abdominal part of the ureter.

4.
 - 4.1 Describe the anatomy of the arches of the foot and its functional significance. (70%)

 - 4.2 Briefly describe the sensory innervation of the foot. (30%)

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PAPER II
PART A - PHYSIOLOGY

Answer all questions.

Answer each question in a separate book.

1. Describe the regulation of respiration in a healthy adult.

2. Explain the physiological basis of the following.
 - 2.1 A 25 year-old man has a reduction of urine output following an acute loss of one litre of blood. (50%)

 - 2.2 A young man, following a below knee amputation, states that he feels the presence of the amputated leg and foot. He also complains of severe pain when the stump is touched or pricked with a pin. (50%)

3.
 - 3.1 Describe the motility of colon. (30%)

 - 3.2 Explain the rationale of evaluating the coagulation profile in a patient with obstructive jaundice before surgery. (40%)

 - 3.3 Explain the occurrence of carpopedal spasm in a patient following total thyroidectomy. (30%)

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PART B - PATHOLOGY

Answer all questions.

Answer each question in a separate book.

4. Discuss the different pathological processes that lead to the formation of cavitary lesions in organs or tissues citing examples, including possible complications.

5. A 60- year- old female who underwent hip replacement surgery two weeks previously, presents with a tender swollen calf.
 - 5.1 What is the most likely diagnosis? (10%)

 - 5.2 What are the risk factors of this condition? (30%)

 - 5.3 Discuss the pathogenesis and sequelae of this condition. (60%)

6. Write notes on
 - 6.1 Characteristics of an ideal wound dressing to optimise wound healing. (30%)

 - 6.2 Tumour grading and staging. (40%)

 - 6.3 Pathogenesis of necrotising fasciitis. (30%)