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POSTGRADUATE INSTITUTE OF MEDICINE

UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (SURGERY) - FEBRUARY 2020

11th February 2020

Time: 9.30 am - 11.30 am

PAPER I

ANATOMY

Answer all four (04) questions

Answer each question in a separate book.

1.
 - 1.1. Describe the gross anatomy of the thyroid gland. (80%)
 - 1.2. Outline the embryological basis of a thyroglossal cyst. (20%)
2.
 - 2.1. Describe the anatomy of the thoracic duct and its clinical importance. (60%)
 - 2.2. Describe the course and the relations of the nerves within the superior mediastinum. (40%)
3. Describe the arrangement of the peritoneum of supracolic compartment. (100%)
4. Discuss the anatomy and the clinical importance of intrinsic muscles of the hand. (100%)

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PAPER II
PART A (PHYSIOLOGY)

Answer all four (04) questions

Answer each question in a separate book.

1. Describe the physiological basis of the events that take place following cardiogenic shock. (100%)

2.
 - 2.1 Explain the changes that would take place in the oxygen delivery in a patient with long-standing anaemia. (50%)
 - 2.2 Describe the physiological basis of derangements which occur when a patient with O positive blood group is accidentally transfused with A positive red cells. (50%)

3.
 - 3.1 Explain the role of gastrointestinal hormones which act on the pancreas. (30%)
 - 3.2 Explain the basis of elderly patients being more prone to develop acute renal failure when they are on non-steroidal anti-inflammatory drugs (NSAIDs). (30%)
 - 3.3 Explain the physiological basis for the use of non-opioids in analgesia. (40 %)

PART B (PATHOLOGY)

Answer all three (03) questions.

Answer each question in a separate book.

4. A 68-year-old woman diagnosed with carcinoma of the right breast was admitted for further investigation. She complained of loss of appetite, severe loss of weight, muscle pain and numbness of feet.

On examination, she had a skin rash on the face and hands with skin ulceration over the tumour. There were multiple hard right axillary lymph nodes with oedema of the right hand.

Investigations:

Haemoglobin	-	8.8 g /dL
Serum calcium	-	2.85 (2.2-2.6 mmol/L)

Explain the pathological basis for each clinical feature and investigation finding in this patient. (100%)

5.

- 5.1 Discuss the pathological basis of systemic effects in acute inflammation. (45%)

- 5.2 A 28-year-old man presented with alteration of bowel habits of two months duration.

- 5.2.1 List three inflammatory causes for this presentation. (10%)

- 5.2.2 Describe the macroscopic features of each condition listed in 5.2.1 (45%)

6. Write notes on,

- a. Pathogenesis of urinary tract infection in a patient with a long-standing urinary catheter (40%)
- b. Pathogenesis of oedema formation in a patient who has sustained a 40 percent burn (30%)
- c. Development of a non-healing wound three weeks after radiotherapy (30%)