POSTGRADUATE INSTITUTE OF MEDICINE UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (SURGERY) - FEBRUARY 2021

Date: - 9th February 2021

nuclei).

Time: -9.30 a.m. - 11.30 a.m.

(100%)

PAPER I

ANATOMY

Answer all four (04) questions.

Answer each question in a separate book.

1. (40%)1.1. Describe the ligaments of the shoulder joint. (40%)1.2. Describe the scapular movements. Using a flow chart illustrate the alternative pathway of circulation to 1.3. the upper limb when there is narrowing of the third part of the subclavian artery. (20%)2. Discuss the role of muscles and joints in relation to the respiratory (100%)movements. 3. Describe arterial supply of stomach. (65%)3.1. 3.2. Describe the lymphatic drainage of the stomach. (35%)4. Describe the course and the distribution trigeminal nerve (excluding its

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PAPER II

PART A (PHYSIOLOGY)

Answer all three (03) questions. Answer each question in a separate book.

- 1. Outline the functions of thyroid hormones and explain the physiological basis of assessment of the thyroid status in a 40-year-old woman with a goitre.

 (100%)
- 2. Explain the physiological basis of the following:
 - 2.1. The use of depolarizing neuromuscular junction blockers during general anaesthesia and the reversal of blockade. (30%)
 - 2.2 Mechanisms of action of anti-hypertensive agents that act on the renin-angiotensin-aldosterone system. (40%)
 - 2.3 Derangement of water and electrolyte balance following total colectomy. (30%)
- 3. Explain the following:
 - 3.1 The physiological basis of bleeding in a patient with severe idiopathic thrombocytopaenic purpura. (30%)
 - 3.2 The regulation of intracranial pressure and its effects on cerebral blood flow. (40%)
 - 3.3 The physiological changes that occur following a tracheostomy.(30%)

Contd..../2-

PART B (PATHOLOGY)

Answer all three (03) questions.

Answer each question in a separate book.

- 4. Discuss the pathological changes and possible clinical outcomes of post-traumatic skin and soft tissue loss in the ankle region, which have healed by secondary intention. (100%)
- 5. A middle-aged man presenting with lower abdominal pain is found to have a palpable mass in the right iliac fossa.
 - 5.1. What are the possible causes for the right iliac fossa mass in this patient? (10%)
 - 5.2. Describe the aetiopathogenesis of three (03) of the diseases mentioned in 5.1. (60%)
 - 5.3. Outline the complications that could arise in each of the three (03) diseases mentioned in 5.2. (30%)

6. Write notes on:

- 6.1. Aetiopathogenesis and complications of gallstones. (35%)
- 6.2. Pathological basis of tumour nomenclature. (30%)
- 6.3. Pathogenesis and complications of abdominal aortic aneurysm. (35%)