

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (SURGERY)
SEPTEMBER 2020

Date :- 3rd September, 2020

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.
 - 1.1. Describe the gross anatomy of the tongue. (70%)
 - 1.2. Describe the lymphatic drainage of the tongue and its clinical significance. (30%)
2.
 - 2.1. Describe the anatomical relations of the first rib and its clinical significance. (60%)
 - 2.2. Describe the structures that pass in and out of the thorax in relation to the diaphragm. (40%)
3. Describe the origins, course and the relations of the portal vein and outline the sites of porto-caval anastamosis. (100%)
4. Describe the anatomical structures that support the stability and function of the knee joint, with its clinical significance. (100%)

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PAPER II

PART A (PHYSIOLOGY)

Answer all three (03) questions.

Answer each question in a separate book.

1.

1.1. Describe how atmospheric oxygen is delivered to tissues. (50%)

1.2. Explain how oxygen delivery to the tissues is affected in a healthy young adult after a laparotomy. (50%)

2.

2.1. Explain the physiological basis of using atracurium as a muscle relaxant during surgery. (30%)

2.2. A patient with paralytic ileus developed severe abdominal distension and increased intra-abdominal pressure with a drop in systolic blood pressure to 90 mmHg.

Explain the pathophysiological basis for the drop in blood pressure. (40%)

2.3. A person on high protein diet has an increased urine concentrating ability. Explain the physiological basis. (30%)

3.

3.1. Describe the mechanisms preventing reflux of gastric contents into oesophagus. (30%)

3.2. Explain the basis for the use of low molecular weight heparin for thromboprophylaxis. (40%)

3.3. Explain the pathophysiological basis of Kussmaul breathing in diabetic ketoacidosis. (30%)

Contd..../2-

PART B (PATHOLOGY)

Answer all three (03) questions.

Answer each question in a separate book.

4. A middle aged male is diagnosed with bladder outflow obstruction due to a stricture in the bulbar urethra.
- 4.1. Describe the possible aetiopathogenesis of this lesion. (50%)
- 4.2. List the adaptive responses that could occur in the bladder of this patient and describe their pathogenesis. (50%)
- 5.
- 5.1. Describe the different histopathological patterns of chronic inflammatory response encountered in the intestine with examples. (50%)
- 5.2.
- 5.2.1. Describe the aetiopathogenesis of deep vein thrombosis of lower limb. (25%)
- 5.2.2. Briefly outline the clinicopathological effects of deep vein thrombosis of lower limb. (25%)
6. Write notes on;
- 6.1. Laboratory diagnosis of malignant tumour in the clinical setting. (35%)
- 6.2. Non-metastatic effects of malignant tumours. (35%)
- 6.3. Oncogenic viruses. (30%)