POSTGRADUATE INSTITUTE OF MEDICINE UNIVERSITY OF COLOMBO

SELECTION EXAMINATION MD (OPHTHALMOLOGY) FEBRUARY 2022

Date: 07th February 2022

Time: 1.00 p.m. - 4.00 p.m.

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STRUCTURED ESSAY PAPER

Answer all questions in Parts A, B and C. Answer each question in a separate answer book.

PART A (ANATOMY)

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1. 1.1	Outline the boundaries of the carotid triangle.	(20%)
1.2	Describe the contents of the carotid triangle.	(50%)
1.3	State the clinical significance of the carotid triangle.	(30%)
2. 2.1		
2.1	2.1.1 Draw a labeled diagram of cross section of the pons.	(30%)
÷	2.1.2 Describe the course and distribution of the sixth cranial its clinical relevance.	nerve with (40%)
2.2		
	2.2.1 List the structures at the cerebellopontine angle.	(10%)
	2.2.2 Briefly explain the clinical effects of cerebellopontine an tumour.	gle (20%)

PART B (PHYSIOLOGY)

3.

- 3.1 Describe the factors that affect oxygen delivery to tissues in a healthy adult at rest. (60%)
- 3.2 Outline how the oxygen delivery is affected in a patient with severe anaemia. (40%)

4.

- 4.1 A 35-year-old patient presents with fever, chills and rigors. His body temperature is 40° C with a respiratory rate of 20/min and pulse rate of 100 beats per minute.
 Explain the physiological basis of his symptoms and signs mentioned above. (60%)
- 4.2 A 24-year-old man suffers an injury to his hand with significant bleeding. Describe the physiological basis of the haemostatic reactions to the injury. (40%)

PART C (PATHOLOGY)

- 5. Explain the pathological basis of the following scenarios.
- 5.1 A 25-year-old man with septic arthritis is febrile and his knee joint is red, swollen, warm and tender on examination. (35%)
- 5.2 A 75-year-old man develops a cerebral infarction five days after a transmural myocardial infarction. (35%)
- 5.3 Examination of the retina in 50-year-old man with diabetes mellitus reveals microaneurysms, haemorrhages, macular oedema and exudates, and abnormal new blood vessels. (30%)

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6.

- 6.1 Chest x-ray of a 50-year-old man with pulmonary tuberculosis shows apical cavities. Explain the immuno-pathogenesis of this condition.

 (35%)
- 6.2 Briefly explain how special stains are used in the laboratory diagnosis of infectious diseases. (35%)
- 6.3 Explain the pharmacological basis of the action of amphotericin B. (30%)