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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (OPHTHALMOLOGY) – JANUARY 2017

Date: 30 January 2017

Time: 1.00 p.m. – 4.00 p.m.

STRUCTURED ESSAY PAPER

Answer all questions in Parts A, B and C.

Answer **each question in a separate answer book.**

PART A (ANATOMY)

1.

1.1 Name the autonomic ganglia of the head and neck region and state the anatomical location of them. (30%)

1.2 Describe in detail innervations of the lacrimal gland and the autonomic ganglion which sends parasympathetic fibers to it. (70%)

2.

2.1 Describe the anatomy of the scalp. (80%)

2.2 Add a brief note on its clinical significance. (20%)

Contd.../2-

PART B (PHYSIOLOGY)

3. Explain the physiological basis of the following.
- 3.1 A 25- year-old healthy primi gravida with a period of amenorrhoea (POA) of 20 weeks was found to have a soft ejection systolic murmur over the precordium on routine examination. (50%)
- 3.2 A 50-year-old man recently diagnosed with type 2 diabetes mellitus, complained of polyuria and nocturia. (50%)
- 4.
- 4.1 A 42 year old farmer was brought to the hospital with a history of organophosphate poisoning. He was found to have a pulse rate of 56 beats per minute, difficulty in breathing, weakness of limbs and pinpoint pupils.
- Explain the physiological basis for the above clinical signs observed in this patient. (50%)
- 4.2 Patients with untreated hyperthyroidism may have high or low TSH levels. Explain the physiological basis. (50%)

PART C (PATHOLOGY)

5.
 - 5.1 Describe the pathological changes (macroscopic and microscopic) seen in malignant tumours. (60%)
 - 5.2 Describe the pathways of dissemination of malignant tumours giving examples. (40%)

6. Write short notes on
 - 6.1 Non cultural techniques in diagnosing microbial infections (50%)
 - 6.2 Actions of the Antimuscarinic drugs. (30%)
 - 6.3 Laboratory diagnosis of fungal infections. (20%)