

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (RESTORATIVE DENTISTRY)-
SEPTEMBER/OCTOBER 2017

Date: 12th October 2017

Time: 9.00 a.m. - 11.00 a.m.

PAPER I

Answer two (02) questions from each part.
Answer each question in a separate book.

PART A (GENERAL ANATOMY)

1.
 - 1.1. Name the facial layers present in the face. (10 marks)
 - 1.2. Describe the arrangement of each layer mentioned in 1.1 in the face. (60 marks)
 - 1.3. State the nuclei and their locations of the cranial nerves passing through the temporal bone. (30 marks)
2.
 - 2.1. Outline the blood supply to the palatine tonsils. (20 marks)
 - 2.2. Describe the possible complications of palatine tonsillectomy. (40 marks)
 - 2.3. Draw a labelled diagram of transverse section of the thorax at the level of first thoracic vertebra to illustrate the structures traversing and their relationships. (40 marks)
3.
 - 3.1. List the bones which form the skeletal framework of the nasal cavity. (20 marks)
 - 3.2. Describe the openings to the lateral wall of the nasal cavity indicating the clinical significance. (30 marks)
 - 3.3. Describe the distribution of mandibular division of trigeminal nerve within the infratemporal fossa. (50 marks)

PART B (DENTAL ANATOMY)

4.
 - 4.1. Describe the age changes of dentine-pulp complex. (50 marks)
 - 4.2. Explain how the knowledge of age changes of dentine-pulp complex is clinically relevant to the dental surgeon. (30 marks)
 - 4.3. Describe dentine-enamel junction. (20 marks)

5.
 - 5.1. Describe the fiber component of the periodontal ligament. (55 marks)
 - 5.2. List three (03) functions of the periodontal ligament. (15 marks)
 - 5.3. List five (05) features of the junctional epithelium. (30 marks)

6.
 - 6.1. Describe the structure of mucous membrane of the tongue and palate. (60 marks)
 - 6.2. Explain how the knowledge mentioned in 6.1. is important in clinical practice. (40 marks)

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PAPER II

Answer two (02) questions from each part.
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PART A (PHYSIOLOGY)

1.

1.1. Describe how the glucose level is maintained in a normal individual. (40 marks)

1.2. A 15 year old diabetic patient who has taken his morning dose of insulin collapses. He exhibits sweating and shakiness.

1.2.1. What is the possible cause for the condition mentioned in 1.2? (10 marks)

1.2.2. Outline the sequence of events which could lead to the onset of symptoms mentioned in 1.2. (25 marks)

1.2.3. How does the emergency medication given for this condition act? (25 marks)

2.

2.1. Describe how the arterial blood pressure is regulated. (40 marks)

2.2. List the physiological factors that could lead to:

2.2.1. increase in blood pressure. (20 marks)

2.2.2. decrease in blood pressure. (20 marks)

2.3. State how angiotensin converting enzyme (ACE) inhibitors act to reduce the blood pressure. (20 marks)

Contd...../2-

- 3.
- 3.1. Define the term “vital capacity”. (15 marks)
 - 3.2. State the physiological factors that may affect vital capacity. (25 marks)
 - 3.3. The FEV₁/FVC of an individual was 60%. Comment on the findings. (30 marks)
 - 3.4. “Dead space may be affected by perfusion”. Comment on the statement. (30 marks)

PART B (PATHOLOGY)

4. Different pathological processes can lead to swelling of a tissue. Discuss the pathogenesis of swelling in
- 4.1. cellulitis (40 marks)
 - 4.2. angio-neurotic oedema (30 marks)
 - 4.3. right heart failure (30 marks)
- 5.
- 5.1. What is meant by prognosis of a malignancy? (20 marks)
 - 5.2. Giving examples discuss different prognostic factors of a malignancy. (80 marks)
- 6.
- 6.1. What is meant by cell injury? (10 marks)
 - 6.2. Discuss the mechanisms of cell injury. (60 marks)
 - 6.3. What are the factors that decide
 - 6.3.1. cellular response to injury? (15 marks)
 - 6.3.2. consequences of cell injury? (15 marks)