

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (RESTORATIVE DENTISTRY)
OCTOBER 2016

Date: 6th October 2016

Time: 1.00 p.m. - 3.00 p.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 bones that form the walls of the orbit (15 marks)
 - 1.2 List the cranial nerves present in the orbit (10 marks)
 - 1.3 State the nuclei and their locations of the cranial nerve mentioned in 1.2 (35 marks)
 - 1.4 Describe the venous drainage of the orbit indicating the clinical relevance (40 marks)

2.
 - 2.1 In respect of the pterygopalatine fossa
 - 2.1.1 state the boundaries (20 marks)
 - 2.1.2 describe its communications indicating the openings and structures passing through (40 marks)
 - 2.2 Describe the parasympathetic supply of the lacrimal gland (40 marks)

3.
 - 3.1 List the muscles which are involved in the movements of the mandible (20 marks)
 - 3.2 Describe how the actions of the muscles mentioned in 3.1 cause mandibular movements (50 marks)
 - 3.3 Describe the factors that are important for the stability of the temporo-mandibular joint (30 marks)

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PART B (DENTAL ANATOMY)

4. Describe the following indicating the relevance to clinical practice.
 - 4.1 Regeneration and repair capability of alveolar bone (40 marks)
 - 4.2 Dental epithelial remnants (35 marks)
 - 4.3 Role of stem cells in dental tissues (25 marks)

5.
 - 5.1 Describe post eruptive changes of the dentine (60 marks)
 - 5.2 Explain the dentine sensitivity (40 marks)

6.
 - 6.1 Describe the surface enamel (40 marks)
 - 6.2 What is the relevance of the structural features of enamel in clinical dentistry? (40 marks)
 - 6.3 Explain the effects of fluoride on enamel (20 marks)

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OCTOBER 2016

Date: 7th October 2016

Time: 1.00 p.m. - 3.00 p.m.

PAPER II

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

PART A (PHYSIOLOGY)

1.
 - 1.1 List the phases of gastric acid secretion (10 marks)
 - 1.2 Describe the mechanisms in the above phases (40 marks)
 - 1.3 List the factors that inhibit gastric acid secretion (20 marks)
 - 1.4 Explain the physiological basis in the use of pharmacological agents in the management of increased gastric acidity (30 marks)

2.
 - 2.1 Define "syncope" (30 marks)
 - 2.2 List the causes of syncope (30 marks)
 - 2.3 Describe the physiological basis of syncope (40 marks)

3.
 - 3.1 State the sequence of events that take place once a nerve impulse reaches the presynaptic membrane until the completion of muscle contraction (60 marks)
 - 3.2 Explain the effects of curare on muscle contraction (40 marks)

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PART B (PATHOLOGY)

- 4.
- 4.1 Explain with examples the different types of responses of the human body to microbial invasion (50 marks)
- 4.2 List the different ways in which micro-organisms cause damage to tissues (15 marks)
- 4.3 Explain how an acute inflammatory reaction would vary in the presence of an infection (35 marks)
- 5.
- 5.1 Outline the different vascular changes seen in chronic inflammation (30 marks)
- 5.2 Explain the pathogenesis of each of the changes mentioned in 5.1 (40 marks)
- 5.3 List the effects of vascular changes mentioned in 5.1 (30 marks)
- 6.
- 6.1 Discuss three (03) pathological processes that lead to softening of a tissue or an organ. (70 marks)
- 6.2 List the consequences of the pathological processes mentioned in 6.1 (30 marks)