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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (ORAL & MAXILLOFACIAL SURGERY) -OCTOBER 2013

Date :- 9th October 2013

Time :- 1.00 p.m. – 4.00 p.m.

PAPER 1.1

Answer three (03) questions from each part.
Answer each question in a separate book.

PART A (GENERAL ANATOMY)

1.
 - 1.1. Describe the attachments of mylohyoid and buccinator muscles. (50 marks)
 - 1.2. Explain how the above mentioned muscle attachments influence the spread of odontogenic infections. (50 marks)
2.
 - 2.1. State the boundaries of the carotid triangle. (20 marks)
 - 2.2. List the nerves and vessels present in the carotid triangle. (40 marks)
 - 2.3. Describe the extracranial course of one of the cranial nerves mentioned in.2.2. (40 marks)
3.
 - 3.1. Describe the development of the mandible (30 marks)
 - 3.2. Discuss the strengths and weaknesses of the structure of the mandible (40 marks)
 - 3.3. Explain the long term complications associated with condylar injury in a child (30 marks)
4.
 - 4.1. Describe the course and distribution of the maxillary artery (75 marks)
 - 4.2. Discuss the clinical importance of the maxillary artery and its branches (25 marks)

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PART B (DENTAL ANATOMY)

5.
 - 5.1. Discuss the morphological variations of the cementsoenamel junction (CEJ) (25 marks)
 - 5.2. State five (05) clinical procedures that would affect the structure of the CEJ (25 marks)
 - 5.3. Explain how clinical procedures mentioned in 5.2. would predispose the CEJ to develop pathological changes (50 marks)
6.
 - 6.1. List the cell types present in the lamina propria of the oral mucosa (20 marks)
 - 6.2. State the functions of the cell types mentioned in 6.1 (20 marks)
 - 6.3. Describe the protective mechanisms that exist in the oral cavity against the microorganisms (60 marks)
7.
 - 7.1. Outline the steps involved in the development of the secondary palate (50 marks)
 - 7.2. Explain how an isolated cleft palate is formed (30 marks)
 - 7.3. List possible causative factors for the formation of cleft palate (20 marks)
8.
 - 8.1. List the age changes of salivary glands (30 marks)
 - 8.2. Describe the origin, structure and function of myoepithelial cells (30 marks)
 - 8.3. Explain the complications associated with reduced salivary flow rate (40 marks)

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**SELECTION EXAMINATION IN MD ((ORAL & MAXILLOFACIAL
SURGERY) MD (RESTORATIVE DENTISTRY), MD (ORTHODONTICS)**
OCTOBER 2013

Date :- 10th October 2013

Time :- 9.00 a.m. – 12.00 noon

PAPER II

Answer three (03) questions from each part.
Answer each question in a separate book.

PART A (PHYSIOLOGY)

1.
 - 1.1. Explain the Starling's forces acting on the capillary membrane. (25 marks)
 - 1.2. Explain the causation of oedema in the following conditions based on your answer to 1.1.
 - 1.2.1. Venous obstruction (15 marks)
 - 1.2.2. Hypoproteinaemia (15 marks)
 - 1.2.3. Hypersensitivity reaction (15 marks)
 - 1.3. Explain the physiological basis for the use of calcium channel blockers in cardiovascular disease. (30 marks)

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2.

2.1. Compare and contrast

2.1.1. "upper motor neuron lesion" and "lower motor neuron lesion".
(20 marks)

2.1.2. "competitive neuromuscular junction blocker" and "non-competitive neuromuscular junction blocker".
(20 marks)

2.2. Explain the physiological basis for the use of opioid peptides in pain management.
(30 marks)

2.3. Explain the physiological basis of "cough reflex".
(30 marks)

3.

3.1. Describe the functions of adrenal steroids.
(40 marks)

3.2. Discuss the physiological basis of using steroids in clinical practice.
(40 marks)

3.3. Outline the complications of steroid usage.
(20 marks)

4.

4.1. List the functions of the liver.
(20 marks)

4.2. List the clinical features of liver failure.
(30 marks)

4.3. Explain the physiological basis of the clinical features listed in 4.2.
(50 marks)

Contd..../3-

PART B (PATHOLOGY)

- 5.
- 5.1. Explain the role of p53 gene and Retinoblastoma gene in cell cycle control and carcinogenesis. (50 marks)
- 5.2. "Angiogenesis is an important event in carcinogenesis"
Discuss the above statement. (25 marks)
- 5.3. Describe the ways in which oncogenic viruses contribute to carcinogenesis. (25 marks)
- 6.
- 6.1. Discuss the role of macrophage in chronic inflammation. (50 marks)
- 6.2. Explain the effects of inflammatory process in the progression of periodontal disease. (50 marks)
- 7.
- 7.1. State how you would minimize surgical site infections in your practice. (30 marks)
- 7.2. Discuss the significance of opportunistic infections seen in clinical practice. (30 marks)
- 7.3. List the steps you would take to protect you, your staff and the patients from cross infections. (20 marks)
- 7.4. List the effects ~~on~~ of nosocomial infections on health care delivery system (20 marks)
- 8.
- 8.1. Define the term "cyst" (10 marks)
- 8.2. List five (05) different mechanisms of cyst formation giving appropriate clinical examples. (20 marks)
- 8.3. State how a cyst differs from an abscess. (20 marks)
- 8.4. List histopathological differences between an acute and a chronic abscess. (20 marks)
- 8.5. A patient presented with multiple small abscesses in the submandibular region of two months duration.
List five (05) conditions to be considered in the differential diagnosis. (30 marks)

10/10/2013