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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (ORAL & MAXILLOFACIAL SURGERY) – OCTOBER 2015

Date :- 7th October 2015

Time :- 9.00 a.m. – 12.00 noon

PAPER I

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

PART A (GENERAL ANATOMY)

1. Describe the following indicating the importance in clinical practice
 - 1.1. Superior mediastinum. (40 marks)
 - 1.2. Intercostal space. (30 marks)
 - 1.3. Pleural cavity. (30 marks)
2. In respect of the middle ear, describe
 - 2.1. the development. (20 marks)
 - 2.2. the arrangement of contents in relation to function. (40 marks)
 - 2.3. boundaries and communications with their clinical implications. (40 marks)
3.
 - 3.1. Describe the anatomy of the parapharyngeal space. (50 marks)
 - 3.2. State the clinical relevance of the parapharyngeal space. (50 marks)
4. In respect of the temporal fossa describe the
 - 4.1. boundaries including osteology. (30 marks)
 - 4.2. fascial arrangement. (40 marks)
 - 4.3. clinical implications. (30 marks)

Contd.../2-

PART B (DENTAL ANATOMY)

- 5.
- 5.1. Outline the steps involved in the process of cementum formation. (50 marks)
 - 5.2. Indicate the anomalies of cementum formation and their effects. (25 marks)
 - 5.3. List the physicochemical properties of cementum and state their clinical significance. (25 marks)
- 6.
- 6.1. Describe the development of the dentogingival junction. (30 marks)
 - 6.2. List the functions of the dentogingival junction. (30 marks)
 - 6.3. Describe how the structure of the dentogingival junction is adapted to carry out its functions. (40 marks)
- 7.
- 7.1. Explain the functional characteristics of cranial neural crest cells. (40 marks)
 - 7.2. What are the structural components and constituents of the epithelial connective tissue interface? (40 marks)
 - 7.3. List the functions of the epithelial connective tissue interface. (20 marks)
- 8.
- 8.1. List the cartilages involved in the development and growth of the mandible. (20 marks)
 - 8.2. State the fate of the structures mentioned in 8.1. (40 marks)
 - 8.3. Discuss the factors affecting the postnatal growth of the mandible. (40 marks)

Final 2017

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SURGERY) – OCTOBER 2015

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PAPER II

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

PART A (PHYSIOLOGY)

1.

- 1.1. Classify anaemia based on red cell indices. (15 marks)
- 1.2. Explain the clinical features seen in an anaemic patient. (40 marks)
- 1.3. List the investigations that could be carried out to arrive at the diagnosis. (30 marks)
- 1.4. List the steps one would take to prevent sickle cell crisis during and following surgery under general anaesthesia. (15 marks)

2. Explain the physiological basis of the following

- 2.1. Presence of haematemesis in a patient with cirrhosis. (25 marks)
- 2.2. Presence of oedema in a patient with nephrotic syndrome. (25 marks)
- 2.3. Degree of liver cell damage is indicated by elevated levels of aminotransferases. (25 marks)
- 2.4. Pink frothy sputum in a patient with congestive cardiac failure. (25 marks)

Contd..../2-

- 3.
- 3.1. Classify nerve fibres according to conduction velocity. (25 marks)
- 3.2. State one (01) afferent signal transmitted by each fibre type mentioned in 3.1. (25 marks)
- 3.3. Explain two (02) mechanisms by which different intensities of a sensory signal are transmitted in a nerve tract. (50 marks)
- 4.
- 4.1. Outline the role of the respiratory centre in the regulation of respiration. (40 marks)
- 4.2. Define the term "apnoea". (10 marks)
- 4.3. List four (04) causative factors of obstructive sleep apnoea. (20 marks)
- 4.4. State the cardiovascular effects of obstructive sleep apnoea. (30 marks)

PART B (PATHOLOGY)

- 5.
- 5.1. What is meant by congestion? (10 marks)
- 5.2. Tabulate the similarities and differences between active and passive congestion. (20 marks)
- 5.3. Name two (02) situations each where active and passive congestion occur. (10 marks)
- 5.4. Explain the pathogenesis of oedema in a congested tissue. (20 marks)
- 5.5. Outline the changes of chronic venous congestion in following organs
- 5.5.1. Lung (20 marks)
- 5.5.2. Liver (20 marks)

6.

- 6.1. Define the term "granuloma". (15 marks)
- 6.2. Classify different types of granulomatous inflammation giving examples. (30 marks)
- 6.3. What are the complications of chronic inflammation? (30 marks)
- 6.4. How does chronic inflammation differ from acute inflammation? (25 marks)

7.

- 7.1. Draw and label a typical bacterial cell. (20 marks)
- 7.2.
- 7.2.1. List main types of bacterial toxins. (06 marks)
- 7.2.2. Compare the toxins listed in 7.2.1. (24 marks)
- 7.3.
- 7.3.1. Name five (05) bacteria which cause pyogenic infections. (10 marks)
- 7.3.2. State the significance of a sample of pus in the management of pyogenic infections. (10 marks)
- 7.4.
- 7.4.1. State four (04) different modes of actions of antibiotics giving examples. (20 marks)
- 7.4.2. List causes for failure of antibiotic treatment. (10marks)

8.

- 8.1. What is a tumour marker? (20 marks)
- 8.2. Explain the use of serological tumour markers in the management of malignancies with clinical examples. (60 marks)
- 8.3. State the drawbacks of tumour markers in clinical oncology. (20 marks)