



FCD(SA) OMP Part I

THE COLLEGES OF MEDICINE OF SOUTH AFRICA

Incorporated Association not for gain
Reg No 1955/000003/08

Part I Examination for the Fellowship of the College of Dentistry of South Africa – Oral Medicine and Periodontics

27 June 2016

Paper 1

(3 hours)

All questions are to be answered. Each question to be answered in a separate book (or books if more than one is required for the answer)

- 1 Describe the anatomy of the muscles of mastication, including their innervation and blood supply. [25]
- 2 Describe the structure and anatomical relations of the salivary glands. Explain how the salivary glands are innervated. [25]
- 3 Describe the anatomic position in relation to other structures of the hypoglossal nerve (twelfth cranial nerve) from where it arises at the hypoglossal nucleus in the brain stem to the structures it innervates. [25]
- 4 Explain the embryological development of the primary and secondary palate. Include descriptions of mechanisms of this development where possible. [25]



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Paper 2

All questions are to be answered. Each question to be answered in a separate book (or books if more than one is required for the one answer)

- 2 Describe the formation of vitamin D in the skin, its subsequent hydroxylation in the liver and kidneys and the actions of its biologically active metabolites as well as the regulation of synthesis. [25]
- 3 a) Discuss the functions of granulocytes. (15)
b) Describe the functions of oxygen (O₂) and carbon dioxide (CO₂) in the body. (10)
[25]
- 4 Write short descriptive notes on
a) Referred pain.
b) Osteoporosis.
c) Swallowing.
d) IgA.
e) ATP. [25]



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Paper 3

(3 hours)

All questions are to be answered. Each question to be answered in a separate book (or books if more than one is required for the answer)

- 1 Explain the pathogenesis of granulomatous inflammation by providing examples of diseases which are characterised by this form of chronic inflammatory process. [30]
- 2 A saddle thrombo-embolus is an obscure cause of sudden cardiac death
 - a) Define “embolus”. (3)
 - b) Provide examples of emboli and explain their origin. (6)
 - c) Describe and explain the factors which influence thrombosis. (6)
 - d) Explain the ultimate fate of thrombo-emboli. (5)
 - e) Define the terms “saddle thrombo-embolus” and “paradoxical embolus”. Provide an explanation of the aetiology and associated complications in each case. (6)
 - f) Distinguish between phlebothrombosis and thrombophlebitis with reference to the aetiopathogenesis of these two processes. (4)[30]
- 3
 - a) Explain the process of wound healing in a cleanly incised surgical wound in which the edges have been closely opposed by means of sutures. (8)
 - b) Describe the factors that may compromise optimal wound healing. (7)[15]
- 4 Explain the mechanisms by which tumour cells are capable of local and distant spread. [15]
- 5 Write short notes to explain the following
 - a) The role of p53 in carcinogenesis. (5)
 - b) The aetiology and complications of disseminated intravascular coagulation. (5)
 - c) The role of the extracellular matrix in tissue repair. (5)[15]