



FCD(SA) Pros 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 - Prosthodontics

30 January 2019

Paper 1

Anatomy, embryology, history and oral biology

(3 hours)
(88 marks)

All questions are to be answered.

Candidate number:.....

Answer in the space provided.

Question 1

a) Complete the table below with the origin, insertion, action and innervation of the listed muscles

(20)

Muscles

	Masseter	Temporalis	Lateral Pteregoid	Medial Pteregoid	Genioglossus
Origin					
Insertion					
Action					
Innervation					

b) Complete the table for all the ganglia associated with the Trigeminal nerve (N. V)

(28)

Parasympathetic ganglia associated with the Trigeminal nerve

	Ciliary Ganglion	Pteregopalatine Ganglion	Otic Ganglion	Submandibular ganglion
Attachment of ganglion				
PARASYMPATHETIC				
Root				
Distribution				
SYMPATHETIC				
Root				
Distribution				
SOMATIC				
Root				
Distribution				

[48]

Question 2

Describe the following as it relates to the tongue

a) Nerve innervation. (10)

b) Lymphatic drainage. (5)

Question 3

Describe, in detail, the submandibular gland. The following points must be covered in the answer

- a) Anatomic location of cervical and deep parts. (8)

Question 4

Write descriptive notes on the paranasal air sinuses.

[12]



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31 January 2019

Paper 2

Physiology

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)

SECTION B

- 2 a) Name the sensations of taste and briefly explain the signal transduction for each. (13)
b) Give the parasympathetic and sympathetic response (where applicable) on the following effector organs: Salivary gland, heart, lungs, pancreas and kidneys. (12)
[25]
- 3 Write descriptive notes on the following
- a) Functions of Nitric oxide. (5)
 - b) The four categories of hypoxia. (8)
 - c) Mast cells. (7)
 - d) Pulmonary surfactant. (5)
 - e) Cardiac output. (5)
- [30]
- 4 Calcium homeostasis is under hormonal control
- a) Discuss the ways in which parathyroid hormone affects calcium concentration. (8)
 - b) Explain the biosynthesis of calcitriol and its role in the control of calcium. (12)
- [20]
- 5 Classify and describe briefly the different functions of the liver. [25]
- 6 a) Describe the events taking place at the neuromuscular junction. (10)
b) What are the mechanisms of anaemia and major causes thereof? (15)
[25]

(Total marks section B: 125 marks)



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1 February 2019

Paper 3

Principles of pathology including microbiology

SECTION B

Answer the following questions in a separate book (or books if more than one is required for the answer), and ensure that the question number and answer correspond.

- 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) 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]
- 3 Explain the process of leukocyte recruitment and activation in the setting of acute inflammation. [15]

(Total marks section B: 60 marks)