

### 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

31 January 2018

Paper 1

Anatomy, embryology, history and oral biology

(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 one answer)

1 Embryology Describe the formation of the face during embryological development.

[25]

- 2 Gross anatomy
  - The cartilaginous skeleton of the nose comprises five main cartilages and several additional smaller ones. Describe the nasal cartilaginous skeleton and its relation to the bony nasal skeleton. [15]
- Maxillofacial prostheses often involve creating aesthetically pleasing eye prostheses. Describe the bony orbit in terms of the bones forming the walls and the orbital margin. [25]
- Discuss the movements that take place in the temporomandibular joints referring to the following five aspects [30]
  - a) Depression (opening).
  - b) Elevation.
  - c) Protrusion.
  - d) Retrusion.
  - e) Side-to-side movements.
- 5 Describe the following as it relates to the tongue

[25]

- a) Nerve innervation.
- b) Lymphatic drainage.
- 6 Write descriptive notes on the paranasal air sinuses.

[20]

Write short descriptive notes on the branches of the anterior division of the mandibular nerve.

[10]



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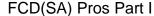
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1 February 2018

Paper 2 Physiology (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 one answer) 1 a) Describe the normal structure of the erythrocyte. (5)(5)b) List functions of erythrocytes. Draw and describe an oxygen-haemoglobin dissociation curve and list the important c) factors affecting the affinity of haemoglobin for O2. (35)[45] 2 Discuss in detail the development of cellular mediated immunity. [45] 3 Write short notes on the following Pepsin. a) (5)Hormones secreted by the kidney. b) (5)Mean arterial blood pressure c) (5)Mast cells. (15)d) Referred pain. e) (15)[45] 4 Calcium is an essential intracellular signalling molecule and also plays a variety of extracellular functions, thus control of calcium is vitally important. In which activities is calcium essential? a) (5)Describe the distribution of calcium in plasma. b) (5)Discuss the regulation of blood calcium level. c) (35)[45]





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2 February 2018

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 term microbial oncogenesis by using appropriate examples to justify your explanation. [15]
- 2 Explain how you would distinguish between a benign or malignant neck mass on clinical examination. [15]
- With regards to thrombosis, compare and contrast arterial and venous thrombi with reference to the predisposing factors of such conditions. [15]
- 4 Define metaplasia and provide examples of this process to explain your answer. [10]
- 5 Classify the various forms of amyloidosis (amyloid disease) and explain the pathogenesis in each case. [15]



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#### **SECTION C**

Write brief explanatory notes for each of the following questions in a separate book (or books if more than one is required).

1	Wound healing by secondary intention.	[5]
2	The pathogenesis and clinical signs of cystic fibrosis.	[5]
3	The clinical presentation of septic shock.	[5]
4	The causes and clinical signs of metastatic calcification.	[5]