(3 hours)



Paper 1

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

27 June 2018 Anatomy, embryology, history and oral biology

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) Which nerves and arteries, including branches, supply the teeth?b) Which nerves and arteries, including branches, supply the temporomandibular joint?	(4) (3) [7]			
2	b) Lymphatic drainage.	(10) (5) [15]			
3	Describe the extent including subdivisions of the nasal cavity. In your answer, refer also to anatomical structures within this area.	the [10]			
4	Describe the structure of the parotid gland, and indicate which anatomical structures rad from it. You may use a diagram to illustrate your answer.	iate [20]			
5	Write descriptive notes on the structure and content of the submandibular triangle.	[10]			
6	Write explanatory notes regarding the temporomandibular joint capsule components and attachments.	its [8]			
7	Write brief descriptive notes about the branches of the Glossopharyngeal Nerve.	[15]			
8	What are the boundaries of the pterygopalatine fossa?	[5]			
9	Briefly discuss the embryologic development of the viscerocranium.	[10]			



FCD(SA) Pros Part I

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28 June 2018

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

1	a)	Describe the structure of bone and physiology of bone growth.	(25)
	b)	Why do doctors recommend that people who are allergic to bee stings (a	and thus
		anaphylactic shock) carry a vial of epinephrine in case of a sting?	(10)
	c)	List the components of a basic reflex arc.	(5)
			[40]
2	Writ	e descriptive notes on the following	
	a)	Functions of plasma proteins.	(6)
	b)	The major causes of anaemia.	$(\dot{1}4)$
	c)	The metabolic effects of cortisol.	(8)
	ď)	Regulation of thyroid hormone secretion.	(12)
	e)	Afferent pain fibres.	(10)
	-,		[50]
3	a)	Discuss the role of platelets in haemostasis.	(17)
	b)	Describe the functions of lymphocytes in body protection.	(18)
	- /		[35]
			[]



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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 List and describe the five cardinal signs of acute inflammation. [15]
- 2 Explain the pathophysiological causes of shock. [15]
- 3 Provide examples to explain the T-cell reactions involved in tissue injury and disease. [15]
- With regard to thrombosis, compare and contrast arterial and venous thrombi with reference to the predisposing factors, pathogenesis and ultimate fate. [15]
- 5 Explain the factors which influence the mutagenic, carcinogenic and teratogenic effects of ionising radiation on DNA. [10]



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Paper 3

Principles of pathology including microbiology

SECTION C

All questions to be answered in one book.

Write brief explanatory notes for each of the following questions.

1	Type I hypersensitivity reactions.	[5]
2	Components of innate immunity.	[5]
3	Physiological causes of apoptosis.	[5]
4	The role of diet in carcinogenesis.	[5]