

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

26 June 2019

Paper 1Anatomy, embryology, history and oral biology(3 hours)

All questions are to be answered in one book.

- 1 A patient complains that every time he visits the dentist, his mouth is extremely dry. Discuss in detail the parasympathetic and sympathetic innervation of the three major salivary glands. [20]
- 2 Your patient needs alveolar ridge surgery for implants under general anaesthesia. You ask the anaesthetist to do a nasal intubation. He struggles to place the tube as the patient had previous laryngeal surgery. Please give a description of the cavity of the larynx. Also name the Cartilages of the Larynx and indicate the blood supply and innervation. [20]
- 3 A patient presents with Cavernous sinus thrombosis as a complication from an abscess from tooth 16. Please name the veins that contribute to the cavernous sinus as well as the structures that run through the cavernous sinus. [7]
- 4 One of your patients was pruning the tree next of his home. The ladder he was using to access the branches broke and he sustained mandibular fractures including an intra-capsular condyle head fracture. Describe the bony components of the temporomandibular joint in full. [13]
- 5 One of your patients was in a motor vehicle accident (MVA) and sustained a mid-palatal fracture. Describe the palatine bone in full. [11]
- 6 Your friend slipped on wet stairs and in the process of tumbling down the stairs, sustained intracranial bleeding. Describe in short the arterial blood supply of the brain. [11]
- 7 You need to treat a patient under general anaesthesia. You cannot find a peripheral vein to set up an intravenous line and decide to place it in the external jugular vein. Describe the **External jugular vein** in full, also indicating the area that it drains. [13]
- 8 A patient is referred to you for examination of the oral cavity with the main complaint of undiagnosed facial pain. You diagnose trigeminal neuralgia. Please indicate the branches of the **Ophthalmic neve** as well as the area that it supply. [5]



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Physiology

Paper 2

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SECTION B

- 1 a) A young man has a blood pressure of 130/73 mm Hg. What is his pulse pressure? What is his mean arterial pressure? How did you calculate each of those pressures? (5)
 - b) Outline the compensatory mechanisms that maintain blood pressure on rising from the supine to the standing position. (10)

[15]

2 By means of a diagram, illustrate the relationship between the partial pressure of O₂ in blood and the percent saturation of haemoglobin at rest, and the changes produced in this relationship by exercise. [10]

З	Describe the non-urinary (hormonal) functions of the kidney.	[15]
5	Describe the non-utiliary (nonnonal) functions of the kidney.	[13]

4 Write short descriptive notes on

a)	Taste.	(5)
a)		(3)
b)	Gastric juice.	(5)
	•	()
C)	ABO blood group system.	(5)
		[15]



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Paper 3

Principles of pathology including microbiology

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SECTION B

1	Disc a) b) c)	cuss thrombosis under the following headings Pathogenesis. Predisposing factors (Virchow's triad). Fate of the thrombus.	(6) (9) (5) [20]
2		0-year-old systemically healthy patient sustained a bee sting on his hand 2 hours ag presents with periorbital oedema and stridor Name the different types of hypersensitivity reactions. Which type of hypersensitivity reaction did this patient suffer? Explain the molecular and cellular events that occurs in these types of reactions.	go. He (4) (2) (9) [15]
3	Disc a) b)	cuss diabetes mellitus under the following headings The differences between the 2 major forms. Vascular complications associated with this disease.	(7) (8) [15] [50]



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SECTION C

Write short notes on

1	The causes and complications of metastatic calcification.	(5)
2	The aetiology and complications of disseminated intravascular coagulation.	(5)
3	Generalised oedema.	(5)
4	The role of reactive oxygen species in cell injury.	(5)
5	Fatty change.	(5) [25]