



THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

Final Examination for the Fellowship of the
College of Dentistry of South Africa

8 March 2021

Paper 1

Anatomy

(3 hours)

All questions are to be answered in one book.

- 1 A patient presents with a clicking sound over the TMJ while eating. Describe the Articular disc of the TMJ. [12]
- 2 With the examination of a 5-year-old child, you diagnose kissing tonsils. Name the tonsils that make up **Waldeyer's Ring** and indicate where each tonsil is located. [11]
- 3 After application of the inferior alveolar nerve block, the patient indicates that he does not experience any anaesthesia. You realize that you might have angled the needle way too medial and that you injected the solution into the Medial pterygoid muscle.
 - a) Describe the anatomy, innervation, blood supply and actions of the **Medial pterygoid muscle**. [15]
- 4 With the intra oral examination of a patient, you notice that the mucosa of the oropharynx appears red and infected and the palatine tonsils are swollen. These **palatine tonsils** lay between two folds (arches). Name the two folds as well as the nerve supply to the muscles that form these folds. [4]
- 5 A patient that was diagnosed with colon cancer visits your practice for a general check-up. He asks you to be careful around his neck as a port was placed in his Internal Jugular vein to administer chemotherapy. Describe the **Internal Jugular vein** in full. [24]
- 6 A mother complains about her child's front teeth that protrude out of his mouth. You diagnose that he swallows with tongue thrust action. **Name the muscles** that form the **floor of the oral cavity** and **indicate origin, implantation** as well as the **action** and **innervation of these muscles**. Name **two important structures** that traverse the oral floor. [20]
- 7 After applying local anaesthesia to do a restoration on a carious tooth, you see tears running from the patient's eyes. Regarding the **lacrimal gland**, describe the origin and pathway of the **parasympathetic** nerve supply. [14]



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10 March 2021

Paper 3

Pathology

(3 hours)

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SECTION B

- 1 Distinguish between the three major forms of shock by comparing the principle mechanisms involved in each case. (10)
 - 2 Describe the three principle influences on thrombus formation (Virchow's triad). (10)
 - 3 Define metaplasia and provide examples of this process to explain your answer. (10)
 - 4 Explain the factors which influence the mutagenic, carcinogenic and teratogenic effects of ionising radiation on DNA. (10)
- [40]



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SECTION C

Write short notes on:

- 1 Type I hypersensitivity reactions. (5)
- 2 The role of diet in carcinogenesis. (5)
- 3 Hereditary amyloidosis. (5)
- 4 Wound healing by secondary intention. (5)
- 5 The causes and complications of metastatic calcification. (5)
- 6 Physiological causes of apoptosis. (5)

[30]