



THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

Intermediate Examination for the Fellowship of the
College of Maxillo-Facial and Oral Surgeons of South Africa

19 July 2018

Paper 1 Oral Pathology including Microbiology (3 hours)

All questions are to be answered. Answer questions 1-3 and 4-7 in separate books

Please answer Questions 1-3 in one book.

- 1 a) Classify the ameloblastoma using current terminology and explain the use of the latest terminology in the histopathological reporting of these tumours. (10)
b) Classify the mixed epithelial-mesenchymal odontogenic tumours. (6)
c) Write short notes on the primordial odontogenic tumour. (5)
d) Explain the significance of the diagnosis of the sclerosing odontogenic carcinoma. (4)
[25]
- 2 a) Discuss the concept of field cancerisation in potentially malignant oral mucosal disorders. (8)
b) Discuss the role of HPV in oropharyngeal carcinoma and oral squamous cell carcinoma. (8)
c) Explain the significance of grading and staging of oral squamous cell carcinoma. (9)
[25]
- 3 Write short notes on
a) Non-epithelial lined cysts of the mandible. (8)
b) Desmoplastic fibroma. (6)
c) Peripheral ossifying fibroma. (5)
d) Cystic lymphoid hyperplasia. (6)
[25]

Please answer Questions 4-6 in one book.

- 4 Discuss Kaposi's sarcoma under the following
a) Pathogenesis. (3)
b) Types or clinical patterns. (12)
c) Clinical manifestation. (5)
d) Treatment. (5)
[25]

- 5 A 36-year-old black male presents with a radiolucent lesion in the ramus/angle region of the mandible
- a) What are the most likely differential diagnosis? (5)
 - b) Citing relevant literature, discuss the therapeutic approaches towards managing these lesions. (20)
- [25]
- 6 Write short notes on the following
- a) Heck's disease. (8)
 - b) Carnoy's solution. (8)
 - c) Hairy leukoplakia. (9)
- [25]



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Paper 2

General Principles of Surgery

(3 hours)

All questions are to be answered. Answer questions 1-3 and 4-6 in separate books

Please answer Questions 1-3 in one book.

- 1 A 27-year-old man has a dilated left pupil, and a GCS of 7/15 after a pedestrian vehicle accident. He has a BP of 120/70 and a pulse of 140b/min
- a) Key principles and resuscitation management of this man in the emergency department. (7)
 - b) You fail to intubate him orally twice, what are your options and how would you (briefly) execute them? (6)
 - c) What electrolyte abnormalities/conditions can you associate with head injuries in ICU (list and explain three)? (6)
 - d) How would you manage each of these electrolyte abnormalities/conditions? (6)
- [25]
- 2 A 32-year-old female suffers from a Type 1 diabetes since childhood. She is admitted to your hospital for an extensive abscess on the left-side of the neck and extending to the chest wall. Her temperature is 39,5°C, and BP is 80/60, with a pulse rate of 132
- a) How would you investigate her in the emergency department (give your rationale)? (8)
 - b) What treatment would be institute for her (include the doses)? (6)
 - c) She develops diarrhoea while under your care on Day 8 in hospital: what are the possible causes of the diarrhoea? (4)
 - d) How would you approach and treat diarrhoea? (7)
- [25]
- 3 A 25-year-old man is involved in a severe motor vehicle accident, and sustains bilateral fracture ribs, severe pulmonary contusion, severe fracture pelvis and left femur fracture. He is initially unstable and requires multiple transfusions and pelvic binder. He subsequently improved with pelvic packing as well as angio-embolisation. He has saturation of 80% of 100 percent oxygen (FiO₂ of 1) in ICU. There ETT is not blocked and there is no pneumo thoraces
- a) What ventilatory strategies will you consider to improve his oxygenations? (8)
 - b) Discuss his thromboembolic disease risks and options of thrombo-prophylaxis in him. (5)
 - c) Briefly discuss complications of multiple transfusions. (5)

- d) Under what conditions will you consider urgent haemodialysis for this patient. (5)
 - e) List types of renal replacement therapy. (2)
- [25]

Please answer Questions 4-6 in one book.

- 4
- a) You have a patient in need of a hemi-mandibulectomy, the patient, apart from his oral malignancy, has no co-morbidities. Discuss your options for reconstructing the defect with free vascular transfer with reference to the advantages and disadvantages of the choice of flap used. (10)
 - b) Would your choice of donor site be different if the patient has had a knee replacement on the left and discuss your options for reconstructing the defect with free vascular transfer with reference to the advantages and disadvantages of the choice of flap used? (10)
 - c) You have a 70-year-old patient in need of a hemi-mandibulectomy, the patient is a poorly controlled diabetic with vascular insufficiency of both legs, discuss your approach to the reconstruction of this patient's defect (5)
- [25]
- 5
- A 46-year-old female patient visits your practice for a surgical extraction of a carious tooth 37, she is not currently having pain and during the taking of her medical history she gives the history of having had a mastectomy for a carcinoma of the breast and that she has skeletal metastasis. Discuss the important factors that would influence the management of the patient and your approach to the management of the patient to prevent complications post-operatively. [25]
- 6
- Discuss the approach to the management of pain in the head and neck cancer patient. [25]