

THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

28 February 2020

Paper 2

Clinical Ophthalmology



(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) A 62-year-old man presents with cataract in both eyes. Significant in his history is that he underwent myopic refractive laser surgery 20 years ago
 - i) Discuss the problems associated with use of standard IOL formulae and your approach to the patient. (10)
 - b) After a routine cataract operation, you encounter a refractive surprise. The patient is overcorrected by 1.5dioptres
 - i) Discuss your approach to this surprise.
- 2 a) Discuss the role of Optical Coherence Tomography (OCT) in neuro-ophthalmology under the following headings
 - i)Pseudo disc swelling.(4)ii)Papilloedema.(4)iii)Optic neuritis.(4)
 - iv) Compressive optic neuropathy.
 - b) Discuss the clinical features, possible causes, investigation and treatment of Neuroretinitis. (10)
 - [25]

(3)

(15)

[25]

- a) Provide short notes on the various corneal endothelial dystrophies. (5)
 b) Discuss the differences between the corneal endothelial transplant techniques in terms
 - Discuss the differences between the corneal endothelial transplant techniques in terms of
 - i) Selection criteria.
 ii) Intra-operative challenges.
 - iii) Post-operative complications.
 - iv) Long and short-term outcome.

(5) [25]

(5) (5)

(5)

- An optometrist referred a 13-year-old child for a "pigmented fundus lesion" which was noted following a routine examination at the school's eye-screening project. The child had neither significant medical history nor prior ocular problems. Best-corrected visual acuity was 6/6 OD and 6/7.5 OS. Pupils were equally round and reactive
 - List and discuss the differential diagnoses.

b) On fundus examination, each lesion had a peculiar fishtail shaped hypopigmented change at one end. Optical coherence tomography of the lesion showed intra-retinal abnormalities between the retinal pigment epithelium (RPE) and photoreceptor layers (2)

- What will the Fundus Fluorescein Angiography of this lesion show? ii)
- iii) Which systemic condition is associated with this lesion?
- iv) Which gene is implicated in this condition?
- What is its inheritance pattern? V)

(2) (2)

(2)

(2)

[25]