



THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

Intermediate IB Examination for the Fellowship of the College of Ophthalmologists of South Africa

15 February 2018

Paper 1

Ophthalmic Pathology

(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 Discuss the pathology, including epidemiology and list any associated ocular and systemic conditions of
 - a) Keratoconus. (5)
 - b) Calcific band keratopathy. (5)
 - c) Actinic keratopathy (spheroidal degeneration). (5)
 - d) Lattice corneal dystrophy type 1. (5)
 - e) Peters anomaly. (5)[25]

- 2 Discuss the macroscopic and microscopic changes that occur in diabetes mellitus in the following structures
 - a) Conjunctiva. (2)
 - b) Cornea. (2)
 - c) Lens. (4)
 - d) Iris. (4)
 - e) Ciliary body and choroid. (3)
 - f) Vitreous. (2)
 - g) Optic nerve. (2)
 - h) Retina. (6)[25]

- 3
 - a) Write notes on the pathology of pseudoexfoliation syndrome. (8)
 - b) Discuss the pathology of acute retinal necrosis. (5)[13]



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Paper 2

Clinical Optics and Refraction

(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) Write short notes on the optics of the corneal topographer. (5)
 b) A patient with macular degeneration requests help with reading. Discuss the possible aides available. (5)
 c) After an objective refraction, discuss the refinement of the cylinder. (5)
 d) Define the different axes of the eye. (5)
 e) Briefly discuss the contact lens materials currently used. (5)
 [25]
- 2 a) Write short notes on
 i) Duochrome test. (4)
 ii) Worth 4-dot test. (4)
 b) See the attached printout of an A-scan biometry.
 i) Name all the ocular structures that the peaks and troughs labelled A to H refer to. (4)
 ii) How do you know that this is a good quality scan? (4)
 iii) How would you ensure the most accurate measurements in an eye with a posterior staphyloma? (4)
 [20]
- 3 a) List all types of astigmatism and use diagrams of the schematic eye to demonstrate. (5)
 b) A myopic presbyope is most unhappy with the new bifocal lenses that your colleague prescribed. What are the possible errors in the script that could be causing the patient's unhappiness? (5)
 [10]

