



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

14 February 2019

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 Cytomegalic Inclusion Disease under the following headings:
- a) Introduction. (5)
 - b) Congenital. (5)
 - c) Acquired. (5)
 - d) Histology. (5)
- [20]
- 2 Discuss the pathology of the following retinal conditions:
- a) Stargardt's Disease (Juvenile Macular Dystrophy). (10)
 - b) Familial Drusen. (10)
- [20]
- 3 Write short notes on the following conditions:
- a) The differences between papillary and follicular conjunctivitis. (5)
 - b) The pathology of idiopathic orbital inflammation. (5)
- [10]
- 4 In table form, discuss the stains commonly used in ophthalmic pathology. [10]

Stain	Material stained	Colour	Example
Hematoxylin and eosin			
Periodic acid-Schiff			
Alcian blue			
Colloidal iron			
Congo red			
Ziehl-Neelsen			
Crystal violet			
Masson trichrome			
Perls Prussian blue			
Von Kossa			



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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 Discuss the optical principles (including advantages and disadvantages) of multifocal lenses in the following forms of optical correction:
 - a) Spectacles. (10)
 - b) Contact lenses. (5)
 - c) Intraocular lenses. (5)[20]

- 2 Discuss the following aberrations of optical systems:
 - a) Chromatic aberration. (10)
 - b) Spherical aberration. (10)[20]

- 3 Write short notes on the following topics:
 - a) The use of a pinhole in the measurement of visual acuity. (5)
 - b) Fresnel prisms – optical principle(s), uses/applications in ophthalmology, effect on visual acuity. (10)
 - c) The optics of the corneal topographer. (5)[20]