



FC Ophth(SA) Primary IA

THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

Primary IA Examination for the Fellowship of the
College of Ophthalmologists of South Africa

28 June 2018

Paper 1

Anatomy

(3 hours)

All questions 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 Give a detailed description of the innervation of the lacrimal gland(s) and the neurotransmitters involved. [10]
- 2 Describe the gross anatomy and micro-anatomy of the blood supply of the retina including the blood-retinal barrier. [10]
- 3 Write short notes on the anatomy of the vitreous body. [5]
- 4 Tabulate the developmental stages of the eye during the following gestational periods
a) 3rd month of gestation. (4)
b) 4th month of gestation. (6)
c) 7th month of gestation. (5)
[15]
- 5 Write short notes on the following
a) Heterogeneity. (2)
b) Polymorphism. (2)
c) Autosomal dominant inheritance with complete penetrance. (3)
d) X-linked recessive inheritance. (3)
[10]



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Paper 2

Physiology

(3 hours)

All questions 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 factors that determine the amount of topical medication that can penetrate the cornea. [10]
- 2 Write short notes on
 - a) Electroretinogram (ERG). (10)
 - b) Electro-oculogram (EOG). (5)[15]
- 3 Write short notes (in point form) on the composition and function of aqueous humour. [10]
- 4 Write short notes on the prerequisites for binocular single vision, also define binocular single vision and stereopsis, and describe the principles and methods involved in stereopsis testing. [15]