



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

27 June 2019

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)*

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- 1
  - a) Describe the embryological development of the eyelids. (5)
  - b) Draw a diagram illustrating the cross-sectional anatomy of the upper eyelid. (10)
  - c) Describe, with the aid of a diagram, the anatomy of the lacrimal drainage system. (10)[25]
  
- 2 Write notes on
  - a) The macroscopic anatomy of the iris. (12)
  - b) The anatomy of the drainage angle of the eye. (8)
  - c) The ciliary ganglion. (10)[30]
  
- 3
  - a) Write notes on the lens zonules. (10)
  - b) Write notes on the ciliary body. (15)[25]



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Paper 2

Physiology

(3 hours)

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- 1
  - a) Discuss the function of the retinal epithelial pigment cells. (10)
  - b) Write short notes on the blood-ocular barrier. (5)
  - c) Discuss free radicals under the following headings
    - i) Definition. (2)
    - ii) Effect on the retinal photoreceptors. (3)
    - iii) Protective mechanisms present in the normal eye. (5)[25]
  
- 2
  - a) Write notes on the composition of the tears and discuss the functions of each layer of the tear film. (15)
  - b) Discuss the physiology of tear production. (10)[25]
  
- 3
  - a) Write notes on ocular toxicity from systemic administration of drugs. Give 3 examples of common oculotoxic drugs. (15)
  - b) Write notes on stereopsis and depth perception. (10)
  - c) Write notes on mitochondrial inheritance. (5)[30]