



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

13 February 2020



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 a) Write short notes on the pathology of albinism. (10)
b) List the prognostic risk factors associated with a higher rate of metastasis in melanoma under the following sub-headings
i) Histological. (5)
ii) Genetic. (5)
[20]
- 2 a) Write short notes to illustrate the difference between a chalazion and a hordeolum. (5)
b) Discuss the usual macroscopic appearance and pathology of an eyelid capillary haemangioma. (5)
c) Write short notes on the pathology of optic atrophy. (5)
d) Write short notes on the pathology of optic disc drusen. (5)
[20]
- 3 a) Discuss the pathology of an orbital dermoid cyst. (5)
b) Describe the macroscopic and microscopic pathology of a pleomorphic adenoma of the lacrimal gland. (7)
c) Write short notes on the pathology of pingueculum. (3)
d) Write short notes on the pathology of band keratopathy. (3)
e) Write short notes on the pathology spheroidal degeneration of the cornea. (2)
[20]
- 4 Please see multiple choice questions in separate book. [40]



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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) Tabulate the different radiometric and photometric units of emitted and reflected light. (10)
 - b) Draw a schematic representation of a laser tube. (5)
 - c) Tabulate five differences between Argon and Nd-YAG lasers. (5)[20]

- 2 Write short notes on the principles of corneal refractive surgery for the correction of
 - a) Myopia. (7)
 - b) Hyperopia. (7)
 - c) Astigmatism. (6)[20]

- 3
 - a) Discuss the optics of the Maddox rod. (3)
 - b) How is the Maddox rod used to test muscle balance? (3)
 - c) Discuss the influence of pupil size with regards to visual function testing and refractive surgery. (5)
 - d) Discuss the optical problems of aphakic spectacles and the possible solutions to correct that. (5)
 - e) With regards to refractive index
 - i) Give the definition of refractive index. (1)
 - ii) What is the numerical value of the refractive index of air? (1)
 - iii) How is the principle of refractive index used in the prescribing of spectacles? (2)[20]

- 4 Please see multiple choice questions in separate book. [40]