

**POST GRADUATE EXAMINATION, APRIL - 2019**

**MS OPHTHALMOLOGY  
(PAPER ONE)**

**BASIC SCIENCES (OCULAR ANATOMY, PHYSIOLOGY, PHARMACOLOGY AND PATHOLOGY)**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Discuss anatomy and congenital anomalies of orbit. **(20)**

**Q. 2.** Describe in detail about physiology of color vision. **(20)**

**Q. 3. Describe briefly:** **(3 x 10 = 30)**

- a. Congenital anomalies of optic disc
- b. Factor affecting intra-ocular pressure
- c. Mechanism of accommodation

**Q. 4. Write short notes on:** **(5 x 6 = 30)**

- a. Role of peri-ocular steroids
- b. Color coding in indirect ophthalmoscopy
- c. Lacrimal pump mechanism
- d. Preservation of cornea
- e. Blood aqueous barrier

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**MS OPHTHALMOLOGY  
(PAPER TWO)**

**CLINICAL OPHTHALMOLOGY INCLUDING SURGERY**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

- Q. 1.** Enumerate methods to examine posterior segment. Discuss the optics of indirect ophthalmoscopy. (20)
- Q. 2.** Discuss methods to detect visual acuity of a child below five years age. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Color coding in corneal diagram
  - b. Duane retraction syndrome
  - c. Schirmers' test
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Non healing corneal ulcer
  - b. DSAEK
  - c. Investigations in recurrent optic neuritis
  - d. Lamellar cataract
  - e. Management of meibomitis

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MS OPHTHALMOLOGY  
(PAPER THREE)

OPTICS, REFRACTION & INVESTIGATIVE OPHTHALMOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions  
Illustrate with suitable diagrams.

- Q. 1. Discuss schematic/ reduced eye and its various types. (20)
- Q. 2. Discuss corneal topography. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- ICG angiography
  - Amblyopia and its management
  - Types of accommodation
- Q. 4. Write short notes on: (5 x 6 = 30)
- Rigid gas permeable lens
  - Principles of prescription of prisms
  - UBM
  - Multifocal IOL
  - Role of functional MRI in ophthalmology

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**POST GRADUATE EXAMINATION, APRIL - 2019**

**MS OPHTHALMOLOGY  
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, NEURO OPHTHALMOLOGY, COMMUNITY  
OPHTHALMOLOGY & MEDICOLEGAL ASPECTS IN OPHTHALMOLOGY**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

- Q. 1.** Discuss anatomy and various lesions of IIIrd cranial nerve. (20)
- Q. 2.** Discuss merits and demerits of various glaucoma implants. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Femto-assisted cataract surgery
  - b. Boston kerato-prosthesis
  - c. Genetics of retinoblastoma
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Gangcyclovir
  - b. Retinal implants
  - c. Endoscopic DCR
  - d. New drugs in management of uveitis
  - e. Vision 2020

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