

**MANIPAL UNIVERSITY**  
**PG DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION – APRIL 2015**  
**SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY**

Wednesday, April 01, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Draw neat and labeled diagrams wherever necessary.**

✍ **Essay Questions:**

1. Describe the structure of the crystalline lens. Add a note on transparency of lens. (15 marks)
2. Discuss the formation, circulation and drainage of aqueous humour. (15 marks)

3. **Short Answer Questions:**

- 3A. Discuss the role of steroids in ophthalmology.
- 3B. Discuss the visual field defects caused by the lesions affecting the optic chiasma.
- 3C. Write a brief note on Schirmer's test.
- 3D. Describe the vitreous attachments.
- 3E. Discuss the role of genetic counselling in retinoblastoma.
- 3F. Describe the principle of indirect ophthalmoscope and mention the differences between direct and indirect ophthalmoscope.
- 3G. Discuss the various spaces in the orbit. Add a note on preseptal cellulitis.
- 3H. Discuss the retinal vascular pulsations.
- 3I. Discuss the assessment of visual acuity in preverbal children.
- 3J. Discuss the factors affecting the ocular rigidity.

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****PG DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION – APRIL 2015****SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY**

Thursday, April 02, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Draw neat and labeled diagrams wherever necessary.**

✍ **Essay Questions:**

1. Discuss the management of a 2 year old child with right eye esotropia of 30 degrees.  
(15 marks)
2. Discuss the causes, stages, clinical features and management of neovascular glaucoma.  
(15 marks)

3. **Write Short Answers:**

- 3A. Discuss the principle of retinoscopy. Draw a neat labeled diagram of reduced eye.
- 3B. Discuss the management of aphakia.
- 3C. Discuss the clinical features and management of Vernal catarrh.
- 3D. Discuss the predisposing factors for rhegmatogenous retinal detachment.
- 3E. Discuss the difference between hydrophilic and hydrophobic Intraocular lenses (IOL).
- 3F. Discuss the management of recurrent anterior uveitis.
- 3G. Discuss the clinical features of congenital glaucoma.
- 3H. Discuss the clinical features and management of bleb related endophthalmitis.
- 3I. Discuss the clinical features and management of phacolytic glaucoma.
- 3J. Describe the clinical features and management of central retinal artery occlusion (CRAO).  
(7 marks × 10 = 70 marks)



## MANIPAL UNIVERSITY

### PG DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION – APRIL 2015

SUBJECT: PAPER III: PRINCIPLES AND PRACTICE OF SURGERY OF EYE AND RELATED TOPICS

Saturday, April 04, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Essay Questions:**

1. Discuss vitreous haemorrhage and its management.

(15 marks)

2. Discuss orbitotomies.

(15 marks)

3. **Short Answers:**

3A. Discuss use of amniotic membrane in eye.

3B. Discuss Laser Assisted Epithelial Keratomileusis (LASEK).

3C. Discuss astigmatic neutral wound in cataract surgery.

3D. Discuss malignant glaucoma.

3E. Discuss aqueous tap.

3F. Discuss phakic Intra Ocular Lenses.

3G. Discuss management of descemet's membrane detachment during cataract surgery.

3H. Discuss indications of keratoplasty.

3I. Discuss management of a retinal hole.

3J. Discuss ectropion.

(7 marks × 10 = 70 marks)

