

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**PG DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION – JUNE 2020**  
**SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY**

Wednesday, June 03, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Draw neat and labelled diagram wherever necessary.**

✍ **Essay Questions:**

1. Discuss the factors affecting the corneal transparency. Add a note on drug permeability across the cornea.  
(15 marks)

2. Draw a neat labeled diagram of superior orbital fissure. Mention the various spaces in the orbit and their clinical importance.  
(15 marks)

3. **Short answer questions:**

- 3A. Discuss the mechanism of action, uses and side effects of Brimonidine tartarate eye drops.
- 3B. Describe the Visual cycle.
- 3C. Describe the staining technique used to identify Mycobacterium Tuberculosis. Add a note on anterior segment manifestations of ocular tuberculosis.
- 3D. Discuss the principle of Pachymetry and mention its uses.
- 3E. Describe the origin and course of oculomotor nerve.
- 3F. Describe the histopathology of pleomorphic adenoma of the lacrimal gland. Write the features of Mikulicz's syndrome.
- 3G. Describe the development of binocular single vision.
- 3H. Describe the anatomy of Bruch's membrane. Discuss the applied anatomy of Bruch's membrane.
- 3I. Describe the mechanism of development of corticosteroid induced cataract.
- 3J. Discuss the various stains (dyes) used in the detection of dry eye.

(7 marks × 10 = 70 marks)



Reg. No.

**MANIPAL ACADEMY OF HIGHER EDUCATION**

**PG DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION – JUNE 2020**

**SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY**

Thursday, June 04, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. Discuss multifocal I.O.L s.

(15 marks)

2. Discuss management of diabetic macular oedema.

(15 marks)

3. **Short Answers:**

3A. Discuss corneal vascularisation.

3B. State causes and management of ectropion.

3C. Discuss clinical features of trachoma.

3D. Discuss low vision aids.

3E. Enumerate pathological changes in malignant myopia.

3F. Discuss complicated cataract.

3G. Discuss nodules in iris.

3H. Discuss clinical features of retinopathy of prematurity.

3I. Discuss clinical features and management of optic neuritis.

3J. Discuss lacrimal gland tumours.

(7 marks × 10 = 70 marks)



Reg. No.

**MANIPAL ACADEMY OF HIGHER EDUCATION**

**PG DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION – JUNE 2020**

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

Friday, June 05, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions with the help of diagram wherever necessary.

✍ Essays Questions:

1. Discuss classification, evaluation and management of diabetic retinopathy. (15 marks)
2. Discuss clinical features and management of thyroid eye disease. (15 marks)

3. Short Answers:

- 3A. Discuss treatment options for prethreshold retinopathy of prematurity.
- 3B. Discuss management of congenital glaucoma.
- 3C. Discuss principles of retinal detachment surgery.
- 3D. Discuss evaluation and management of congenital ptosis.
- 3E. Discuss post operative endophthalmitis.
- 3F. Discuss management of chronic dacryocystitis.
- 3G. Discuss clinical features and management of blunt injury to the eye.
- 3H. Discuss management of vitreous haemorrhage.
- 3I. Discuss conductive keratoplasty.
- 3J. Discuss newer techniques in the management of a cataract. (7 marks × 10 = 70 marks)

