

MANIPAL ACADEMY OF HIGHER EDUCATION
PG DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION – MAY 2021
PAPER I

Monday, May 03, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

✍ **Essay Questions:**

1. Discuss anatomy of the lacrimal drainage system. Add a note on the role of orbicularis oculi in lacrimal drainage.
(15 marks)

2. Discuss the physiology of maintenance of corneal transparency
(15 marks)

3. **Short answer questions:**

- 3A. Discuss methods of retinoscopy
- 3B. Discuss the development of the lens.
- 3C. Discuss blood aqueous barrier.
- 3D. Discuss microbiological investigations in a corneal ulcer
- 3E. Discuss immunosuppressive agents used in ophthalmology
- 3F. Discuss indications for fundus fluorescein angiography
- 3G. Discuss Flexner Wintersteiner Rosettes.
- 3H. Discuss Knudson's hypothesis in retinoblastoma
- 3I. Discuss management of convergence insufficiency
- 3J. Discuss different methods of measuring the intra ocular pressure.
(7 marks × 10 = 70 marks)



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PAPER II

Tuesday, May 04, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

✍ **Essay Questions:**

1. Discuss clinical features and recent advances in management of diabetic maculopathy.
(15 marks)
2. Discuss clinical features and management of Acute post operative bacterial endophthalmitis.
(15 marks)

3. **Short answer questions:**

- 3A. Discuss management of acute iridocyclitis
- 3B. Discuss Symblepharon
- 3C. Discuss accommodative esotropia
- 3D. Discuss management of Buphthalmos
- 3E. Discuss Laser iridotomy
- 3F. Discuss causes for nodule at limbus
- 3G. Discuss basal cell carcinoma of lid
- 3H. Discuss Fundus picture in AION (Anterior Ischaemic Optic Neuropathy)
- 3I. Discuss management of subretinal neovascular membrane
- 3J. Discuss Aetiology and clinical features of neovascular glaucoma

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
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PAPER III

Wednesday, May 05, 2021

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 clinical features and management of anterior subluxated cataractous lens.
(15 marks)
2. Discuss the intra-operative and post -operative complication of glaucoma filtration surgery.
(15 marks)

3. **Short answer questions:**

- 3A. Discuss the role of femtosecond laser in ophthalmology.
- 3B. Discuss the indications and types of keratoprosthesis.
- 3C. Discuss the clinical features and management of Rhabdomyosarcoma.
- 3D. Write a brief note on DSAEK (Descemets stripping automated endothelial keratoplasty).
- 3E. Discuss the indications and techniques of orbital exenteration.
- 3F. Discuss the recent advances in the management of macular edema due to branch retinal vein occlusion.
- 3G. Discuss the indications, techniques, advantages and disadvantages of 23 gauge vitrectomy.
- 3H. Discuss the various techniques of nucleo-fractis in phacoemulsification.
- 3I. Describe the strategies of National Programme for control of blindness.
- 3J. Discuss the strengthening procedures performed in the correction of strabismus.

(7 marks × 10 = 70 marks)

