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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – NOVEMBER 2025

PAPER I

Monday, November 10, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

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

✍ **Long Essays:**

1. Discuss the anatomy of the visual pathway. Add a note on visual field defects, related to the visual pathway.

(15 marks)

2. Discuss the factors influencing the transparency of the cornea. Add a note on Pre Descemet's layer.

(15 marks)

3. **Write short answers for the following:**

3A. Discuss progressive power lenses.

3B. Discuss antiviral drugs used in ophthalmology.

3C. Discuss the surgical spaces of the orbit and its clinical implications.

3D. Discuss pathology of drusen.

3E. Discuss the various microbiological techniques available to diagnose and identify the causes of intraocular infection.

3F. Discuss role of genetics in ophthalmology.

3G. Discuss the tests done for evaluation of the tear film.

3H. Discuss color vision and its clinical implications.

3I. Discuss various sterilization techniques used in ophthalmology.

3J. Discuss use of dyes in ophthalmology.

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – NOVEMBER 2025
PAPER II

Tuesday, November 11, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Draw diagrams wherever necessary.**

✍ **Essay Questions:**

1. Describe the algorithm of management of a 50-year-old male with an intraocular pressure of 32 mmHg by applanation tonometry in both eyes, detected on routine ophthalmic screening.
(15 marks)

2. Discuss the various techniques used for nucleus removal in phacoemulsification.
(15 marks)

3. **Write short answers for the following:**

3A. Discuss the clinical features of keratoconus.

3B. Discuss Browns syndrome in brief.

3C. Discuss the management of a chalazion.

3D. Discuss the approach to a 2-year-old child with watering of the eye.

3E. Describe the fundus fluorescein angiographic features of Acute posterior multifocal placoid pigment epitheliopathy.

3F. Describe the complications of silicon oil used in vitreoretinal surgery.

3G. Outline the surgical management of senile ectropion.

3H. Classify scleritis. Outline the treatment of anterior scleritis.

3I. Discuss after-cataract including a note on its management.

3J. Discuss Mooren's ulcer.

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – NOVEMBER 2025

PAPER III

Wednesday, November 12, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer all the questions.**
- ✍ **Draw neat labelled diagrams wherever necessary.**

✍ **Long Essay:**

1. Discuss the clinical features, diagnosis and management of optic neuritis in a 36 year old female. Add a note on clinical trials in optic neuritis.

(15 marks)

2. Discuss management of diabetic retinopathy, with a note on newer treatment options available.

(15 marks)

3. **Write short answers for the following:**

3A. Discuss phakomatosis with special emphasis on Neurofibromatosis and the eye.

3B. Discuss ophthalmic manifestations of SARS, Covid-19 disease.

3C. Discuss thyroid eye disease.

3D. Discuss ophthalmic manifestations of dengue.

3E. Discuss Ocular Lymphomas.

3F. Discuss Bulls eye maculopathy.

3G. Discuss ocular manifestations in Sarcoidosis.

3H. Discuss superior orbital fissure syndrome.

3I. Discuss Idiopathic Intracranial hypertension.

3J. Discuss ocular features of collagen vascular disorders.

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – NOVEMBER 2025

PAPER IV

Thursday, November 13, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

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

✍ **Long Essays:**

1. Discuss Orbital implants.

(15 marks)

2. Discuss Newer treatment options for keratoconus.

(15 marks)

3. **Write short answers for the following:**

3A. Write short notes on intraarterial chemotherapy in retinoblastoma.

3B. Write short notes on adjustable sutures in squint surgery.

3C. Write short notes on Conjunctival impression cytology.

3D. Describe briefly mechanism of action, indications and complications of Botulinum toxin.

3E. Management of cataract with uveitis.

3F. Discuss the applications of anterior segment Optical Coherence Tomography (OCT) in ophthalmology.

3G. Enumerate the indications and complications of therapeutic contact lens.

3H. Current protocol for the management of angle closure glaucoma.

3I. Enumerate the clinical applications of fibrin glue adhesives in ophthalmology.

3J. Enumerate uses, advantages and disadvantages of Femtosecond laser.

(7 marks × 10 = 70 marks)

