

MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – JANUARY 2025
(REGULAR)
PAPER I

Tuesday, January 14, 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 lens and physiology of accommodation.

(15 marks)

2. Describe the anatomy of visual pathway. Write a note on vascular supply of optic nerve.

(15 marks)

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

3A. Oculocardiac reflex.

3B. Corticosteroids in ophthalmology.

3C. Fluorescein dye in ophthalmology

3D. Genetics of retinoblastoma

3E. Fresnel prisms

3F. Histopathology of choroidal melanoma

3G. Ocular toxoplasmosis

3H. Assessment of stereopsis

3I. Principle of applanation tonometry.

3J. Relative afferent pupillary defect.

(7 marks × 10 = 70 marks)



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PAPER II

Wednesday, January 15, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer all questions.**

 **Draw diagrams wherever necessary.**

 **Essay Questions:**

1. Write in detail about neovascular glaucoma (15 marks)

2. Write in detail about paediatric cataract and its management (15 marks)

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

3A. Write about intermediate uveitis.

3B. Describe the management of corneal ulcer.

3C. Write in detail about Ocular surface squamous neoplasia.

3D. Discuss the differential diagnosis for limbal nodule.

3E. Describe glaucomatocyclitic crisis.

3F. Describe Iridocorneal endothelial syndromes.

3G. Write in detail about normal tension glaucoma.

3H. Write about viscoelastics in ophthalmology.

3I. Describe phacodynamics in detail.

3J. Write about duochrome test.

(7 marks × 10 = 70 marks)



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PAPER III

Thursday, January 16, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer all the questions.**

 **Draw neat labelled diagrams wherever necessary.**

 **Long Essay:**

1. Describe ocular manifestations of thyroid orbitopathy. Discuss the evaluation and management of thyroid orbitopathy.

(15 marks)

2. Describe ocular manifestations of Human Immunodeficiency Virus (HIV) infection

(15 marks)

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

3A. Write a note on phakomatosis. Describe Neurofibromatosis.

3B. Herpes Zoster Ophthalmicus

3C. Presumed ocular tuberculosis

3D. Behcet's disease

3E. Write a note on painful Ophthalmoplegia.

3F. Describe the clinical features in malignant hypertension.

3G. Radiation retinopathy.

3H. Ocular cicatricial pemphigoid

3I. Diagnostic approach for a pediatric cataract.

3J. Choroidal metastatic tumours of systemic malignancy.

(7 marks × 10 = 70 marks)



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PAPER IV

Friday, January 17, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer all questions.**

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

 **Long Essays:**

1. Discuss the principle and uses of Optical coherence tomography-angiography. (15 marks)

2. Describe recent advances in phacoemulsification technology. (15 marks)

3. **Short answers:**

3A. Intra Ocular Lens power estimation in post-lasik eyes.

3B. Collagen cross linking

3C. SAFE strategy in Trachoma

3D. Discuss EAGLE study

3E. Adjustable sutures in strabismus surgery

3F. Small Gauge Vitrectomy

3G. Deep Lamellar Endothelial Keratoplasty

3H. WHO Classification of blindness

3I. Vision 2020

3J. Advances in anti-Vascular Endothelial Growth Factors agents and their applications.

(7 marks × 10 = 70 marks)

