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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – JULY 2023

PAPER I

Monday, July 03, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

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

1. Discuss the factors involved in corneal transparency.

(15 marks)

2. Discuss the immunosuppressives used in ophthalmology.

(15 marks)

3. **Short Notes:**

3A. Describe the structure and formation of precorneal tear film.

3B. Discuss briefly the commercially available antimycotic drugs.

3C. Corneal preservation

3D. Surgical spaces of orbit

3E. Phacoemulsification principles

3F. Optics of + 90 D lens

3G. Viscoelastics in ophthalmology

3H. Prisms in Ophthalmology

3I. Fluorescein dye.

3J. Discuss AC/A ratio. Describe two methods of measuring it.

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – JULY 2023
PAPER II

Tuesday, July 04, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

✍ **Draw diagrams wherever necessary.**

✍ **Long Essay:**

1. Discuss the clinical features and management of Plateau iris syndrome

(15 marks)

2. Discuss the clinical features and management of central retinal vein occlusion

(15 marks)

3. **Short answers:**

3A. Mooren's ulcer

3B. Duane's retraction syndrome

3C. Toxoplasma chorioretinitis

3D. Pigmentary glaucoma

3E. Leber's congenital amaurosis

3F. Ocular trauma score

3G. Deep anterior lamellar keratoplasty

3H. OCT staging of macular hole

3I. Blow out fracture of orbital floor

3J. Posterior scleritis

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – JULY 2023

PAPER III

Wednesday, July 05, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Draw neat labelled diagrams wherever necessary.**

✍ **Long Essay:**

1. Describe the clinical features and management of Rhino-orbital Mucormycosis in the post COVID-19 era.

(15 marks)

2. Discuss non retinal ocular manifestations of diabetes

(15 marks)

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

3A. Discuss ocular management in Bell's palsy

3B. Discuss drug induced angle closure glaucoma

3C. Describe the field defects seen in visual pathway lesions

3D. Describe the management of Arteritic anterior ischemic optic neuropathy

3E. What are the clinical features and investigations of carotico-cavernous fistula?

3F. Discuss ocular associations of rheumatoid arthritis.

3G. List the grading systems for thyroid eye disease and describe any one in detail.

3H. Discuss systemic implications in a patient presenting with amaurosis fugax

3I. Discuss associations between migraine and the eye.

3J. Briefly describe ethambutol optic neuropathy.

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OPHTHALMOLOGY) DEGREE EXAMINATION – JULY 2023

PAPER IV

Thursday, July 06, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

✍ **Draw diagrams wherever necessary.**

✍ **Long Essays:**

1. Discuss femtosecond laser in the management of cataract.

(15 marks)

2. Discuss recent advances in cyclophotocoagulation.

(15 marks)

3. **Short answers:**

3A. Pythium keratitis

3B. Gene therapy in the management of retinal dystrophy

3C. Xen gel stent

3D. Rho kinase inhibitors

3E. Boston keratoprosthesis

3F. Newer techniques of scleral fixation of intraocular lens

3G. Simple limbal epithelial cell transplantation -SLET

3H. Dome shaped macula

3I. Low dose atropine in the management of myopia

3J. Trachoma control program

(7 marks × 10 = 70 marks)

