

MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2013

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY

Tuesday, April 02, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ Answer all the questions. Draw neat, labeled diagrams wherever necessary.

1. Describe the development of angle of the anterior chamber. Add a note on gonioscopy.
2. Discuss the mechanism of aqueous humor formation. Add a note on its composition.
3. Discuss the anatomy and the major physiological role of retinal pigment epithelium.
4. Discuss the mechanism of action, indications and side effects of Botulinum toxin of ophthalmology.
5. Discuss the various patterns of inheritance of genetic disorders. Add a note on Leber Hereditary Optic Neuropathy.
6. Draw a labeled diagram of connections of cavernous sinus. Add a note on cavernous sinus thrombosis.
7. **Write short notes on:**
 - 7A. Chlamydia trachomatis
 - 7B. Gram stain
8. Describe the Jackson cross cylinder. Add a note on soft contact lenses.
9. Describe the anatomical course of Oculomotor nerve. Add a note on superior orbital fissure syndrome.
10. Discuss the type I hypersensitivity reaction. Add a note on vernal keratoconjunctivitis.

(10×10 = 100 marks)



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MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2013

SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY

Wednesday, April 03, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer all the questions. Draw neat, labeled diagrams wherever necessary.

1. Discuss the risk factors, staging and management of retinopathy of prematurity (ROP).
2. Discuss the causes, clinical features, histopathology and management of Ocular Surface Squamous Neoplasia (OSSN).
3. Discuss the clinical features, investigations and the treatment options for keratoconus.
4. Classify ptosis. Discuss the surgical management of congenital ptosis.
5. Discuss the various causes for subluxation of lens. How do you manage a subluxated cataractous lens?
6. Discuss the clinical features and management of acute post-operative endophthalmitis.
7. **Write short notes on:**
 - 7A. Tests for retinal correspondence
 - 7B. Monofixation syndrome
8. Discuss the patho-physiology, clinical features and management of primary acute angle closure glaucoma.
9. Discuss the treatment options for myopia. Add a note on pathological myopia.
10. Discuss the management of a patient of alkali burns.

(10×10 = 100 marks)



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MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2013

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

Thursday, April 04, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer all the questions. Draw diagrams wherever necessary.

1. Discuss briefly the role of lasers in the management of glaucoma.
2. Discuss the surgical approaches to manage an intraconal tumor of the orbit.
3. Describe the surgeries of the oblique muscles of the eye.
4. Classify macular holes. Write briefly on the surgical management of macular hole.
5. Describe the management of cataractous lens with 180 degrees of zonular dialysis.
6. Classify contracted socket. Discuss the management of contracted socket.
7. Discuss the use of femto second laser in ophthalmology.
8. Discuss phakic intra ocular lenses.
9. Discuss the surgical management of moderate degree of ptosis with poor levator function.
10. Discuss the management of corneal scarring following chemical burns.

(10×10 = 100 marks)



MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2013

SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY

Friday, April 05, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer all the questions. Draw diagrams wherever necessary.

1. Discuss the use of anti VEGF in the management of diabetic macular oedema.
2. Discuss newer antiglaucoma surgeries.
3. Enumerate newer lamellar keratoplasty surgeries. Discuss the indications and the surgical steps of any one of them.
4. Discuss the optic disc imaging modalities in the management of glaucoma.
5. Discuss the use of botulinum toxin in ophthalmology.
6. Discuss the international staging and grouping for retinoblastoma.
7. Discuss the role of laser in the management of cataract.
8. Discuss the use of immunosuppressives in ophthalmology.
9. Discuss the calculation of intraocular lens power in a patient who has undergone LASIK.
10. Discuss the use of amniotic membrane in ophthalmology.

• (10×10 = 100 marks)

