

MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY

Tuesday, October 06, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Draw neat labeled diagrams wherever necessary.**

✍ **Long Essays:**

1. Discuss the factors influencing corneal transparency. (15 marks)
2. Discuss the anatomy of cavernous sinus and its clinical significance. (15 marks)

3. **Short Essays:**

- 3A. Applanation tonometer
- 3B. Fundus picture in pathological myopia
- 3C. Histopathology of malignant melanoma
- 3D. Superior orbital fissure
- 3E. Prisms in Ophthalmology
- 3F. Cover test
- 3G. Theories of colour vision
- 3H. Bandage contact lenses
- 3I. Premalignant lesions of the conjunctiva
- 3J. Microbiological investigations for mycotic keratitis

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2015****SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY**

Wednesday, October 07, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. How will you investigate a case of non granulomatous uveitis?
(15 marks)
2. Describe in detail anomalous retinal correspondence.
(15 marks)

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

- 3A. Discuss the management of AION.
- 3B. Discuss the diagnosis and management of a case of CMV Retinitis.
- 3C. What are the signs and symptoms of siderosis bulbi?
- 3D. Discuss the various types of low vision aids.
- 3E. Write a short note on tuberous sclerosis.
- 3F. How will you manage malignant glaucoma?
- 3G. Write a note on orbital mucormycosis.
- 3H. Discuss the theory and practice of rigid contact lens fitting.
- 3I. Write a short note on ophthalmia neonatorum.
- 3J. Write a note on fungal corneal ulcer.

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2015****SUBJECT: PAPER III: PRINCIPLES AND PRACTICE OF SURGERY OF EYE AND RELATED TOPICS**

Thursday, October 08, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions with the help of diagrams wherever necessary.**

✍ **Long Essays:**

1. Enumerate the types of filtration surgeries in glaucoma. Describe the steps and complications of trabeculectomy. What are the methods of revision of a failed filtration bleb?

(3+4+4+4 = 15 marks)

2. Discuss refractive keratoplasty.

(15 marks)

3. **Write short notes on:**

3A. Ocular cysticercosis

3B. Glaucomatous cyclitic crisis

3C. Management of keratoconus

3D. Preservation of donor cornea

3E. Indications and steps of enucleation

3F. Use of cryotherapy in ophthalmology

3G. Management of pediatric cataract

3H. Peribulbar anesthesia

3I. Deep lamellar keratoplasty

3J. Management of symblepharon

(7 marks × 10 = 70 marks)



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MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY

Friday, October 09, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Discuss recent advances in the management of post operative endophthalmitis. (15 marks)
2. How will you manage a case of tractional retinal detachment? (15 marks)

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

- 3A. Different types of multifocal IOLs
- 3B. Stem cell usage in ophthalmology
- 3C. Types of contact lens for keratoconus
- 3D. Deep Anterior Lamellar Keratoplasty
- 3E. Artificial cornea
- 3F. OCT in glaucoma
- 3G. Epilasik
- 3H. Confocal laser ophthalmoscopy
- 3I. Recent concepts in low vision aids
- 3J. Principles of robotic surgery

(7 marks × 10 = 70 marks)

