

MANIPAL UNIVERSITY**MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2015****SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY**

Wednesday, April 01, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay questions.**

1. Discuss applied anatomy of the lens and metabolism of the lens. State changes in cataract. (15 marks)
2. Discuss slit lamp examination of the eye. (15 marks)

3. **Short answer questions:**

- 3A. Discuss anatomy of angle of anterior chamber
- 3B. State factors for corneal transparency
- 3C. Discuss specular microscopy
- 3D. Discuss colour vision
- 3E. Discuss use of fluorescein in eye
- 3F. Discuss use of cycloplegics in eye
- 3G. How do you correct presbyopia?
- 3H. Discuss pathological features of malignant melanoma
- 3I. Discuss investigations in iridocyclitis
- 3J. Discuss treatment modalities of toxoplasmosis

(7 marks × 10 = 70 marks)



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

Thursday, April 02, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

✍ **Essay questions.**

1. Describe the methods of retinoscopy. Discuss the stages of retinoscopy. (15 marks)

2. A 5 year old child presents with convergent squint. Discuss the management. (15 marks)

3. **Write short notes on:**

3A. Stromal dystrophy of cornea

3B. Toxic amblyopia

3C. Pars planitis

3D. Low visual aids

3E. Ectopia lentis

3F. Retinitis pigmentosa

3G. Diagnosis of dry eye

3H. Cavernous sinus thrombosis

3I. Corneal graft failure

3J. Normal tension glaucoma

(7 marks × 10 = 70 marks)



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

Saturday, April 04, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay questions:**

1. Discuss congenital ptosis and its management. (15 marks)
2. Discuss postoperative endophthalmitis and its management. (15 marks)
3. **Write short notes on:**
 - 3A. Discuss pre operative evaluation of Laser In-situ Keratomileusis.
 - 3B. Discuss treatment modalities of diabetic macular oedema.
 - 3C. Discuss viscocanulostomy
 - 3D. How do you manage blow out fracture of orbit?
 - 3E. How do you manage a child with 30° of esotropia?
 - 3F. Discuss pneumoretinopexy
 - 3G. State indications and procedures of YAG Laser iridotomy
 - 3H. Mention methods of estimating Intra Ocular Lens. Power in post Laser In-situ Keratomileusis eyes.
 - 3I. Discuss surgical procedures for correction of entropion.
 - 3J. Discuss various types of nucleus management by phacoemulsification. (7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2015****SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY**

Monday, April 06, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw diagram wherever required.**

✍ **Long Essays.**

1. Discuss clinical features and recent advances in Management of Diabetic Macular Oedema. (15 marks)

2. Discuss uses of Femtosecond Laser in Ophthalmology. (15 marks)

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

3A. Adjustable sutures in squint surgery

3B. Boston Type 1 Keratoprosthesis

3C. Infliximab in treatment of uveitis

3D. Accomodative IOL (Intra Ocular Lens)

3E. Intravitreal Drug Delivery

3F. Management of subluxated lens

3G. Recent advances in Optic disc imaging

3H. DSAEK (Descemet's Stripping Automated Endothelial Kearatoplasty)

3I. Endonasal DCR (Dacryo Cysto Rhinostomy)

3J. Shunts used in glaucoma surgery

(7 marks × 10 = 70 marks)

