

**MANIPAL UNIVERSITY****MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2017****SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY**

Tuesday, October 03, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

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

✍ **Essay Questions.**

1. Describe anatomy of the Eye lid. Add a note on origin, course and insertions of Levator Palpebrae Superioris.

(15 marks)

2. Describe Anatomy of Crystalline Lens. How does it maintain its transparency? Add a note on its development.

(15 marks)

3. **Short answer questions:**

3A. Discuss histopathology of retinoblastoma.

3B. What are the various techniques of slitlamp examination of the eye. How do you examine the Retina using it?

3C. What are Prostaglandins? Discuss their applications and side effects in Ophthalmology.

3D. What are the methods of Estimation of Angle of deviation in squint? Add a note on Worth Four Dot Test.

3E. Discuss the principle of Retinoscopy. What is subjective verification of refraction?

3F. Discuss modes of Inheritance pattern with examples in Ophthalmology.

3G. What are the causes of Global blindness? What role does National prevention of Blindness play in India?

3H. What is accommodation? Describe the mechanism and changes during accommodation reflex.

3I. What is the principle of Applanation tonometry? What are the advantages?

3J. What is LASER. What are the properties of LASER?

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2017****SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY**

Wednesday, October 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

✍ **Long Essay**

1. Discuss the clinical features and management of acanthamoeba keratitis. (15 marks)
2. Discuss the etiology & management of intermediate uveitis. (15 marks)

3. **Short Essays**

- 3A. Discuss ICE syndromes.
- 3B. Describe peripheral retinal degenerations. Add a note on their clinical significance.
- 3C. Classify superior oblique palsy. Add a note on clinical features & management of superior oblique palsy.
- 3D. Discuss the management of unilateral convergent squint in a 3 year old child.
- 3E. Discuss the ocular manifestations of raised intracranial pressure.
- 3F. Describe Horner's syndrome. How do you determine the site of lesion in Horner's syndrome?
- 3G. Classify Duane's retraction syndrome. Add a note on pathogenesis & management of Duane's retraction syndrome.
- 3H. Discuss the syndromes associated with retinitis pigmentosa.
- 3I. Pseudoexfoliation syndrome.
- 3J. Toxic amblyopia.

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2017****SUBJECT: PAPER III: PRINCIPLES AND PRACTICE OF SURGERY OF EYE AND RELATED TOPICS**

Thursday, October 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. Discuss the surgical management of rhegmatogenous retinal detachment.

(15 marks)

2. Discuss the management of a case of perforating injury with retained metallic foreign body.

(15 marks)

3. **Short answer questions:**

3A. Viscoelelastics

3B. Paracentesis

3C. Molteno glaucoma valve

3D. Laser Trabeculoplasty

3E. Lateral orbitotomy

3F. Exenteration

3G. Cyanoacrylate adhesives

3H. Lateral tarsorrhaphy

3I. Retinal cryopexy

3J. Corneal aberrometry

(7 marks × 10 = 70 marks)



## MANIPAL UNIVERSITY

## MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2017

## SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY

Friday, October 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw neat labeled diagrams wherever necessary.

✍ Essay Questions:

1. Discuss the recent advances in the management of keratoconus.

(15 marks)

2. Discuss the recent advances in imaging the optic disc in glaucoma.

(15 marks)

3. Short Essay:

3A. Femtosecond laser in ophthalmology

3B. Foldable intraocular lenses

3C. Use of Anti VEGF in ophthalmology

3D. Limbal stem cell transplantation

3E. Electroretinogram

3F. Glaucoma implants

3G. Low vision aids

3H. Ultrasound biomicroscopy

3I. Neuroprotection in glaucoma

3J. Floppy iris syndrome

(7 marks × 10 = 70 marks)

