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**MANIPAL UNIVERSITY**

**MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2017**

**SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY**

Monday, April 03, 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 anatomy of the abducent nerve. (15 marks)

2. Discuss the factors influencing intraocular pressure. (15 marks)

3. **Short answer questions:**

- 3A. Electrooculogram  
3B. Theories of accommodation  
3C. Staining and cultural characteristics of Acanthamoeba  
3D. Antiviral drugs in ophthalmology  
3E. Histopathology of basal cell carcinoma of the eyelid  
3F. Genetics of retinoblastoma  
3G. Maddox rod  
3H. Duochrome test  
3I. Diagnosis of Ocular tuberculosis  
3J. Pulsatile ocular blood flow

(7 marks × 10 = 70 marks)



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## MANIPAL UNIVERSITY

### MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2017

#### SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY

Tuesday, April 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

✍ **Essay Questions.**

1. How would you manage a patient who presents with sudden diminution of vision, severe pain and redness two days after cataract surgery?

(15 marks)

2. Discuss mechanism of accommodation. Add a note on defects of accommodation and its management.

(15 marks)

3. **Short answer questions:**

3A. Discuss principles of indirect ophthalmoscopy

3B. Discuss piggy back contact lenses

3C. Discuss unilateral proptosis and its management

3D. Discuss management of a case of corneal ulcer

3E. Discuss management of epiphora

3F. Discuss management of retinopathy of prematurity

3G. Discuss management of neovascular glaucoma

3H. Discuss conjunctival intraepithelial neoplasia

3I. Discuss management of intermediate uveitis

3J. Discuss management of paediatric cataract

(7 marks × 10 = 70 marks)



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## MANIPAL UNIVERSITY

### MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2017

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

Wednesday, April 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

✍ **Essay Questions:**

1. Discuss classification, diagnosis and management of blepharoptosis.  
(3+5+7 = 15 marks)

2. Discuss classification, aetiology, diagnosis and principles of management of retinal detachment.  
(2+3+5+5 = 15 marks)

3. **Write short notes on:**

3A. Non -penetrating glaucoma surgeries

3B. Measures to prevent recurrence of pterygium

3C. Principle and types of phacoemulsification

3D. Surgical management of proptosis due to thyroid dysfunction

3E. The steps of dacryocystorhinostomy

3F. The principles and methods of ectropion surgeries

3G. Multifocal intraocular lenses

3H. Pars plana vitrectomy

3I. Pneumoretinopexy

3J. Management of age related macular degeneration

(7 marks × 10 = 70 marks)



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**MANIPAL UNIVERSITY**

**MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2017**

**SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY**

Thursday, April 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 macular hole and its management.

(15 marks)

2. Discuss dry eye.

(15 marks)

3. **Short answer questions:**

- 3A. Discuss glaucoma shunt procedures
- 3B. Discuss orb scan for cornea
- 3C. Discuss use of Optical Coherence Tomography in Central Serous Retinopathy
- 3D. State complications of Laser In-situ Keratomileusis
- 3E. Discuss laser interference biometry
- 3F. Discuss blue blocking Intra Ocular Lens
- 3G. Discuss deep anterior lamellar keratoplasty
- 3H. Discuss femtosecond lasers
- 3I. Discuss laser trabeculoplasty
- 3J. Discuss anti Vascular Endothelial Growth Factor drugs

(7 marks×10 = 70 marks)

