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## MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER I: APPLIED BASIC SCIENCES

Monday, April 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions. Each question carries TEN marks.**

1. Write a note on corneal healing.
2. Discuss the Optical principles of indirect ophthalmoscopy.
3. Describe the surgical anatomy of the orbit.
4. Write a note on intravitreal antibiotics.
5. What is confocal microscopy? Discuss its application in ophthalmology.
6. Write a note on toric contact lenses.
7. What is anisometropic amblyopia? Outline the management.
8. Discuss Prostaglandin analogues in glaucoma.
9. Write a note on Non-contact tonometry.
10. Describe the origin and course of the oculomotor nerve.



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## MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER II: DISEASES OF THE ANTERIOR SEGMENT AND ADNEXA,  
SQUINT AND PAEDIATRIC OPHTHALMOLOGY

Tuesday, April 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions. Each question carries TEN marks.**

1. Discuss the management of acute angle closure glaucoma.
2. A 6 month old infant has bilateral corneal opacities. Discuss the differential diagnosis.
3. Classify Amblyopia. Discuss the mechanism and treatment of strabismic amblyopia.
4. What is Pars Planitis? How do you treat it?
5. What is Duanes Retraction Syndrome? How do you differentiate it from lateral rectus palsy?
6. Describe clinical features of Acanthamoeba Keratitis. How do you treat it?
7. What are toxic embryopathies? Discuss clinical signs of congenital rubella syndrome.
8. Discuss Retinopathy of prematurity (ROP) and its management.
9. What are the causes of Ectopia Lentis? How do you manage a case of ectopia lentis?
10. Describe clinical features and pathogenesis of siderosis bulbi.



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## MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER III: POSTERIOR SEGMENT, ORBIT AND OPHTHALMIC SURGERIES

Wednesday, April 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions. Each question carries TEN marks.**

1. Discuss retinal angiomatosis.
2. Describe the features and management of sickle cell retinopathy.
3. Write a short note on PDT.
4. What are the risk factors for rhegmatogenous retinal detachment?
5. Discuss briefly surgical management of macular holes.
6. Describe the aging changes in the vitreous.
7. Write a short note on orbital mucormycosis.
8. Discuss Tolosa Hunt Syndrome.
9. Discuss indications for glaucoma implant surgery. Briefly describe the steps of glaucoma implant surgery.
10. Discuss the indications, steps and complications of enucleation.



**MANIPAL UNIVERSITY****MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2011****SUBJECT: PAPER IV: SYSTEMIC OPHTHALMOLOGY, COMMUNITY OPHTHALMOLOGY, NEURO-OPHTHALMOLOGY AND RECENT ADVANCES**

Thursday, April 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions. Each question carries TEN marks.**

1. A 40 year old patient has AMAUROSIS Fugax. How do you investigate and manage?
2. Describe the ocular manifestations of xerophthalmia. Outline the treatment.
3. What is the principle of OCT? What are its ophthalmic indications?
4. What is the visual field defect seen in optic tract lesion? How do you differentiate it from optic radiation lesion?
5. Classify nystagmus. Describe clinical features of congenital nystagmus. Add a note on surgical management.
6. What is UBM? Mention its uses.
7. What are the recent advances in the management of keratoconus?
8. What are Anti VEGF agents? Discuss actions and indications of any one of them.
9. What are FDT (frequency doubling contrast test) and SWAP (short wave automated perimetry)? Discuss their principles.
10. What are surgical options for management of myopia?

