

[KO 214] MARCH 2006 Sub. Code : 2225

M.S. DEGREE EXAMINATION.

Branch III — Ophthalmology

Part II

**Paper IV — OPHTHALMOLOGY INCLUDING
INVESTIGATIVE OPHTHALMOLOGY AND
SURGERY INCLUDING RECENT ADVANCES**

Time : Three hours Maximum : 100 marks

**Theory : Two hours and Theory : 80 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay : (2 × 15 = 30)

(1) Describe the surgical steps and complications of phako emulsification. Add a note on phako IOLs.

(2) Discuss the importance of FFA in the diagnosis and management of retinal diseases. Briefly describe the procedure.

II. Short notes : (10 × 5 = 50)

- (a) Ocular surface disorder**
- (b) Role of oils and gases in Retinal detachment management**
- (c) Recent management of ARMD**
- (d) Optical coherence tomography**
- (e) Intra orbital implants**
- (f) Masquerade syndrome**
- (g) Differential diagnosis of nodule at limbus**
- (h) Argon laser trabeculoplasty**
- (i) Role of prostaglandins in ophthalmology**
- (j) Surgical correction of Entropion.**

[KQ 213] MARCH 2007 Sub. Code : 2226

M.S. DEGREE EXAMINATION.

Branch III — Ophthalmology

**OPHTHALMOLOGY INCLUDING INVESTIGATIVE
OPHTHALMOLOGY AND SURGERY AND RECENT
ADVANCES**

(Common to Part II – Paper I — (Old/New/Revised
Regulations) (Candidates admitted from 1988–89
onwards))

and

Paper IV — (For candidates admitted from
2004–2005 onwards)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Discuss and compare Laser in-situ kerato-
milesus (Lasik) to Phakic Intraocular Lens (PIOL) in
the management of myopia. (20)

(2) Describe the clinical features and
management of herpes zoster ophthalmicus. (15)

(3) Describe clinical features and management
of ocular cicatricial pemphigoid. (15)

II. Write short notes : (6 × 5 = 30)

(a) Recent trends in the management of
retina vein – occlusion

(b) Coaxial microphaco emulsification

(c) Orthokeratology contact lens

(d) Cellophane maculopathy

(e) Botulinum toxin

(f) Capsular tension ring.

SEPTEMBER 2007

[KR 220]

Sub. Code : 2226

M.S. DEGREE EXAMINATION.

Branch III — Ophthalmology

OPHTHALMOLOGY INCLUDING INVESTIGATIVE
OPHTHALMOLOGY AND SURGERY AND
RECENT ADVANCES

(Common to Part II – Paper I — (Old/New/Revised
Regulations) (Candidates admitted upto 2003-04))

and

Paper IV — (For Candidates admitted from
2004-2005 onwards)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Describe the investigations in case of chronic
uveitis. Describe the complications of chronic uveitis.

(20)

(2) Describe the causes for Retinal Neo
vascularisation. Describe the procedure of panretinal
photocoagulation. (15)

(3) What is amblyopia? Describe the evaluation
and management of amblyopia. (15)

II. Write short notes on : (6 × 5 = 30)

- (a) Endonasal DCR
- (b) Optical Coherence Tomography
- (c) Preservation of Donor Cornea
- (d) Low Vision Aids
- (e) Pulse Steroid Therapy
- (f) Visual Evoked Response.

March-2008

[KS 220]

Sub. Code : 2226

M.S. DEGREE EXAMINATION.

Branch III — Ophthalmology

OPHTHALMOLOGY INCLUDING INVESTIGATIVE
OPHTHALMOLOGY AND SURGERY AND
RECENT ADVANCES

Paper IV — (For Candidates admitted from
2004-05 onwards)

Q.P. Code : 222226

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I: Long Essay : (2 × 20 = 40)

(1) Enlist the different types of refractive surgeries. Discuss the merits and demerits of each surgery. (20)

(2) Describe the Ophthalmic manifestations of Acquired Immune deficiency syndrome. (20)

II. Write short notes on :

(10 × 6 = 60)

- (1) Phakic IOL
- (2) Keratoprosthesis
- (3) Flourescein Angiography
- (4) Ocular coherence tomography
- (5) Lasers in glaucoma
- (6) Prism vergence list
- (7) Marcus Gum pupil
- (8) Use of mitomycin 'C' in ophthalmic surgery and its complications.
- (9) Anterior ischaemic optic neuropathy
- (10) Absolute Glaucoma.

September 2008

[KT 220]

Sub. Code: 2226

M.S. DEGREE EXAMINATION

Branch III – Ophthalmology

**Paper IV - OPHTHALMOLOGY INCLUDING INVESTIGATIVE
OPHTHALMOLOGY AND SURGERY AND
RECENT ADVANCES**

(For candidates admitted from 2004-2005 onwards)

Q.P. Code : 222226

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss the management of congenital dacryocystitis in a two year old child.
2. Discuss the role of immune suppressants in the management of ophthalmic cases.

II. Write short notes on :

(10 X 6 = 60)

1. OSSN – Ocular surface squamous neoplasia.
 2. Polymerase chain reaction.
 3. Visual Rehabilitation.
 4. Scanning laser polarimetry.
 5. Anti VEGF (Vascular endothelial Growth Factor).
 6. 'Macula on' Retinal detachment. (R.D.).
 7. Eviceration.
 8. Impression cytology.
 9. Plaque therapy.
 10. Operating Microscope.
-

March 2009

[KU 220]

Sub. Code: 2226

M.S. DEGREE EXAMINATION

Branch III – OPHTHALMOLOGY

(For candidates admitted from 2004-2005 to 2007-08)

**Paper IV - OPHTHALMOLOGY INCLUDING
INVESTIGATIVE OPHTHALMOLOGY AND
SURGERY AND RECENT ADVANCES**

Q.P. Code : 222226

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(2 x 20 = 40)

1. Discuss surgical management of paediatric cataract.
2. Discuss the various types of lasers and their application in the management of ocular diseases.

II. Write short notes on :

(10 x 6 = 60)

1. Stem cell transplantation.
2. Corneal topography.
3. MRI (Magnetic Resonance Imaging).
4. Congenital dacryocystitis.
5. Photodynamic therapy.
6. Phacotrabeculectomy.
7. Intravitreal drug therapy.
8. Pneumoretinopexy.
9. Role of prostaglandins in ophthalmology.
10. Management of congenital ptosis.

September 2009

[KV 220]

Sub. Code: 2226

M.S. DEGREE EXAMINATION

Branch III – OPHTHALMOLOGY

(For candidates admitted from 2004-2005 to 2007-08)

**Paper IV - OPHTHALMOLOGY INCLUDING
INVESTIGATIVE OPHTHALMOLOGY AND
SURGERY AND RECENT ADVANCES**

Q.P. Code : 222226

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(2 x 20 = 40)

1. Phacoemulsification – Nuclear management and phacolit.
2. Rhegmatogenous retinal detachment – etiopathogenesis and its management.

II. Write short notes on :

(10 x 6 = 60)

1. Vitreous substitutes.
2. Confocal microscopy.
3. Orbital implants and reconstruction.
4. Ultrasound in ophthalmology.
5. Corneal topography.
6. Ophthalmic manifestations of AIDS.
7. Amniotic grafting.
8. Fluorescein angiography.
9. Posterior capsular opacification – prevention and management.
10. Testing of visual acuity in children.

March 2010

[KW 220]

Sub. Code: 2226

M.S. DEGREE EXAMINATION

Branch III – OPHTHALMOLOGY

**Paper IV - (For candidates admitted from 2004-05 to 2007-08) and
Part II / Paper III – (for candidates admitted from 2008-09 onwards)**

**OPHTHALMOLOGY INCLUDING
INVESTIGATIVE OPHTHALMOLOGY AND
SURGERY AND RECENT ADVANCES**

Q.P. Code : 222226

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(2 x 20 = 40)

1. Describe in detail the surgical options for the correction of hyperopia.
2. Define and classify glaucoma. Describe in detail the recent surgical procedures of trabeculectomy including drainage implants.

II. Write short notes on :

(10 x 6 = 60)

1. Multifocal IOL.
2. Surgical treatment of macular hole.
3. EOG.
4. Specular microscopy.
5. USG.
6. Scanning laser polarimetry.
7. Positron emission tomography.
8. Treacher Collins syndrome.
9. Morning glory anomaly.
10. Phakomatosis.

September 2010

[KX 220]

Sub. Code: 2226

M.S. DEGREE EXAMINATION

**Branch III – Ophthalmology
OPHTHALMOLOGY INCLUDING INVESTIGATIVE
OPHTHALMOLOGY AND SURGERY AND
RECENT ADVANCES**

**Paper IV - (For candidates admitted from 2004-05 to 2007-08) and
Part II - Paper III – (for candidates admitted from 2008-09 onwards)**

Q.P. Code : 222226

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss the recent advances in cataract surgery.
2. Discuss in detail the different lasers and its use in ophthalmology.

II. Write short notes on :

(10 X 6 = 60)

1. Ptosis.
2. Evisceration.
3. Phakic IOL.
4. Ocular coherence tomography.
5. USG.
6. Vitrectomy.
7. Scotoma.
8. MRI in ophthalmology.
9. Hemianopia.
10. Glaucoma drainage devices.

May 2011

[KY 220]

Sub. Code: 2226

M.S. DEGREE EXAMINATION

BRANCH III – OPHTHALMOLOGY

OPHTHALMOLOGY INCLUDING INVESTIGATIVE OPHTHALMOLOGY
AND SURGERY AND RECENT ADVANCES

Q.P. Code : 222226

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss recent advances in Glaucoma surgery.	11	35	15
2. Describe the different types of refractive surgeries. Discuss the merits and demerits of each surgery.	11	35	15

II. Write notes on :

1. Scanning laser polarimetry.	4	10	7
2. ICG angiogram.	4	10	7
3. Capsular Tension Ring.	4	10	7
4. Angle recession glaucoma.	4	10	7
5. Recent advances in intra ocular lens.	4	10	7
6. Osteo odanto kerato prosthesis.	4	10	7
7. Management of intra ocular foreign body.	4	10	7
8. Collagen cross linking.	4	10	7
9. Management of Giant retinal tear.	4	10	7
10. Recent classification of retinoblastoma.	4	10	7

October 2011

[KZ 220]

Sub. Code: 2226

M.S. DEGREE EXAMINATION
BRANCH III – OPHTHALMOLOGY
OPHTHALMOLOGY INCLUDING INVESTIGATIVE OPHTHALMOLOGY
AND SURGERY AND RECENT ADVANCES

Q.P. Code : 222226

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

1. Gases and Liquids in retinal detachment surgery.
2. Discuss the different types of surgeries for Ectropion.

Pages Time Marks
(Max.) (Max.) (Max.)

11	35	15
11	35	15

II. Write notes on :

1. Specular Microscopy.
2. FFA in central serous Retinopathy.
3. M.K. Medium.
4. Pigmentary Glaucoma.
5. Multifocal intraocular lens.
6. Glaucoma valve.
7. Stem cells in retinal pathology.
8. Gancyclovir implant for CMV retinitis.
9. Management of ocular surface squamous neoplasia.
10. Recent classification of alkali injuries to cornea.

4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7

APRIL 2012

[LA 220]

Sub. Code: 2226

**M.S. DEGREE EXAMINATION
BRANCH III – OPHTHALMOLOGY
OPHTHALMOLOGY INCLUDING INVESTIGATIVE OPHTHALMOLOGY
AND SURGERY AND RECENT ADVANCES**

Q.P. Code : 222226

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. What are the causes of DRY EYE. Discuss the investigations and management . | 16 | 35 | 15 |
| 2. Describe various surgical procedures for treating Retinal Detachment. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Specular Microscopy- Principle and Clinical Utility. | 4 | 10 | 7 |
| 2. Indications and utility of B-Scan. | 4 | 10 | 7 |
| 3. Surgeries for Astigmatism. | 4 | 10 | 7 |
| 4. Optical coherence Tomography –Principle and types. | 4 | 10 | 7 |
| 5. Pseudo exfoliation glaucoma- Problems associated with management. | 4 | 10 | 7 |
| 6. Localization of I.O.F.B. | 4 | 10 | 7 |
| 7. Ideal IOL – Features and its Importance. | 4 | 10 | 7 |
| 8. Blow out fractures of Orbit – Clinical Features and Management . | 4 | 10 | 7 |
| 9. Preservation of cornea- importance. | 4 | 10 | 7 |
| 10. Optokinetic Nystagmus –importance in localizing the lesion. | 4 | 10 | 7 |

M.S. DEGREE EXAMINATION
BRANCH III – OPHTHALMOLOGY
OPHTHALMOLOGY INCLUDING INVESTIGATIVE OPHTHALMOLOGY,
SURGERY AND RECENT ADVANCES

Q.P. Code : 222226

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the procedure of Fundus Fluorescein Angiography and its usefulness in diagnosis, management and assessing prognosis of retinal problems.
2. Discuss the various procedures in the management of Myopia and their advantages and disadvantages.

II. Write notes on:

(10 x 7 = 70)

1. Aetiology, clinical features and management of Choroidal Neovascularisation.
2. Types of entropion and its management.
3. Aetiology, clinical features & management of Ectopia Lentis.
4. Clinical features & management of Epidemic kerato conjunctivitis.
5. Discuss about Pseudo exfoliation syndrome.
6. Electroretinogram.
7. Types and management of Esotropia.
8. Discuss the indications, advantages and disadvantages of Conductive keratoplasty.
9. Role of Stem cells in ophthalmology.
10. Ultra Sound Biomicroscopy.

[LD 220]

OCTOBER 2013

Sub. Code: 2226

M.S. DEGREE EXAMINATION
BRANCH III – OPHTHALMOLOGY
OPHTHALMOLOGY INCLUDING INVESTIGATIVE OPHTHALMOLOGY,
SURGERY AND RECENT ADVANCES

Q.P. Code : 222226

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Describe in detail the procedure of phaco emulsification, its indication, contra indication and disadvantages.
2. Discuss the types, indication and procedure of Keratoplasty. Mention briefly about donor cornea preservation.

II. Write notes on:

(10 x 7 = 70)

1. Management of Giant retinal tear.
2. Indication, principles and application of optical coherence tomography.
3. Indications of pars plana Vitrectomy and use of Vitreous substitutes.
4. Recent classification of retinoblastoma.
5. Indication of stem cell transplantation.
6. Indication and uses of UBM (Ultrasound Bio Microscopy)
7. Stages of Retinopathy of prematurity and management.
8. Management of buphthalmos.
9. Indications and use of lasers in glaucoma.
10. Etiology, clinical features and management of angle recession glaucoma.

(LE 220)

APRIL 2014

Sub. Code:2226

M.S. DEGREE EXAMINATION

**BRANCH III - OPHTHALMOLOGY
OPHTHALMOLOGY INCLUDING INVESTIGATIVE
OPHTHALMOLOGY SURGERY AND RECENT ADVANCES**

Q.P.Code: 22226

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss about LASERS in ophthalmology and their Applications.
2. Discuss about the Recent Advances in Retinal detachment surgery.

II. Write notes on:

(10X7=70)

1. Keratomalacia – prophylaxis and treatment.
2. Terrien s marginal degeneration.
3. Corneal scraping.
4. Surgical correction of Entropion.
5. Endoscopic DCR.
6. Glaucoma implants.
7. Role of oils and gases in RD surgery.
8. How is Autoclaving done. What are sterilised in it.
9. INTACS.
10. Hypotonic Riboflavin.

(LF 220)

OCTOBER 2014

Sub. Code:2226

M.S. DEGREE EXAMINATION

BRANCH III - OPHTHALMOLOGY

**PAPER IV - OPHTHALMOLOGY INCLUDING INVESTIGATIVE
OPHTHALMOLOGY SURGERY AND RECENT ADVANCES**

Q.P.Code: 222226

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Localisation, complication and removal of intra ocular foreign body.
2. Clinical features, investigations and surgical management of dysthyroid ophthalmopathy.

II. Write notes on:

(10 x 7 = 70)

1. Ocular prosthetics.
2. Surgical Management of obstruction of lacrimal drainage apparatus.
3. Fundus camera.
4. Laser trabeculoplasty.
5. Femto second laser
6. Evolution of intra ocular lens implantation.
7. Vitreous substitutes.
8. Endothelial keratoplasty.
9. Management of intra operative posterior capsular rupture.
10. Principles of photocoagulation.
