

**[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 phaco 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.
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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.

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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.

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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.

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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.

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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

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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

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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 |

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[LB 220]

OCTOBER 2012

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. Current concepts in investigations and management of Uveitis.                              | 16 | 35 | 15 |
| 2. Discuss surgical spaces of orbit, indication and surgical procedure of lateral Orbitotomy. | 16 | 35 | 15 |

**II. Write notes on :**

- |   |   |    |   |
|---|---|----|---|
| 1. Pachymetry – Role in Diagnosis of Glaucoma.                    | 4 | 10 | 7 |
| 2. Surgeries for Hyperopia.                                       | 4 | 10 | 7 |
| 3. Amniotic Membrane graft –Indications and its usage.            | 4 | 10 | 7 |
| 4. Glaucoma Valves –Different types and merits and demerits.      | 4 | 10 | 7 |
| 5. Management of Epiretinal membrane.                             | 4 | 10 | 7 |
| 6. Contact lens for Keratoconus -types.                           | 4 | 10 | 7 |
| 7. Different Types of Multifocal IOL.                             | 4 | 10 | 7 |
| 8. Investigations of Myasthenia gravis.                           | 4 | 10 | 7 |
| 9. Diagnosis and management of Graft Rejection and Graft failure. | 4 | 10 | 7 |
| 10. Management of Failed DCR.                                     | 4 | 10 | 7 |

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**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.

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[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.

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(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.

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(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.

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[LG 220]

APRIL 2015

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**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Causes, complications and management of dropped nucleus.
2. Evolution of corneal refractive surgeries.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Vitrectomy.
2. Complications of strabismus surgeries.
3. Surgical correction of ptosis.
4. B scan – interpretation.
5. Lateral orbitotomy.
6. Lamellar keratoplasty.
7. Laser surgeries to treat glaucoma.
8. Cryopexy.
9. Automated perimetry.
10. Optic nerve decompression.

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[LH 220]

OCTOBER 2015

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**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Phacoemulsification. Nuclear management and phacolit.
2. Describe in detail the investigative procedure of Intraocular foreign body and its management.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Ocular surface staining methods.
2. Multifocal intraocular lens.
3. OCT – Principle.
4. Epilasik.
5. Assessment of vision in a pre-verbal child.
6. Colour vision test.
7. Vitrectomy.
8. Botulinum toxin.
9. Orthokeratology contact lens.
10. Capsular tension ring.

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(LI 220)

APRIL 2016

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. What are the causes of dry eye? Discuss its investigations and management.
2. Discuss the different types of refractive surgeries. Discuss merits and demerits of each surgery.

**II. Write notes on:**

**(10 x 7 = 70)**

1. ICG angiogram.
2. INTACS (Implantable Intracorneal Ring Segment).
3. Collagen cross linking.
4. Classification of Hypertensive retinopathy.
5. Ultrasound in ophthalmology.
6. Uses of amniotic membrane in ophthalmology.
7. Congenital dacryocystitis.
8. Selective laser trabeculoplasty.
9. Senile ptosis.
10. Principles and application of optical coherence tomography.

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(LJ 220)

OCTOBER 2016

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. Discuss in detail the surgical options for correction of myopia.
2. Define and classify glaucoma. Discuss in detail the recent procedures in anti-glaucoma surgeries.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Phacolit.
2. Specular microscopy.
3. Corneal topography.
4. Amsler grid.
5. B scan.
6. Management of vitreous hemorrhage.
7. Laser polarometry.
8. Sturge Weber syndrome.
9. PET scan.
10. Surgical management of Giant tears.

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**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. Complications of trabeculectomy and its management.
2. Diagnosis, treatment and follow up of age related macular degeneration.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Delivery systems, parameters of laser treatment in ophthalmology.
2. Orbital floor fractures.
3. Intra ocular lenses.
4. Indications and complications of sclera buckling.
5. Anterior segment imaging techniques.
6. Recent advances in prevention of acute infectious post operative endophthalmitis.
7. Intra vitreal injections.
8. Faden procedure.
9. Principles management of paediatric cataract.
10. Surgical management of High myopia.

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**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. Describe the etiopathogenesis, clinical features and complications of Dry Eye. Discuss in detail the current concepts in the management of Dry Eye.
2. Discuss the etiopathogenesis, clinical features and current concepts in the management of Age related macular degeneration (ARMD).

**II. Write notes on:**

**(10 x 7 = 70)**

1. Therapeutic contact lenses.
2. Ocular Ischemic syndromes.
3. Microincision vitrectomy surgery (MIVS).
4. Phakic IOLs.
5. Ocular Effects and complications of peribulbar infiltration anaesthesia.
6. Noncontact tonometry (NCT).
7. Macular translocations.
8. Cyano-Acrylate tissue glue.
9. Pseudophakic glaucoma.
10. Recent trends in the management of Retinitis Pigmentosa.

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**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. Factors predisposing to narrow angle, discuss in detail - acute congestive glaucoma.
2. Pars plana vitrectomy, indications, procedure and its complications in detail.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Goniolens.
2. Management of dislocated nucleus.
3. Capsular tension ring.
4. Adjustable sutures in strabismus surgery.
5. Bleb failure.
6. Keratoprosthesis.
7. Deep anterior lamellar keratoplasty.
8. Electroretinogram.
9. Orbital decompression.
10. Causes of trichiasis and its management.

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**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. Describe in detail about the Peripheral Retinal degenerations.  
Discuss the management of Tractional Retinal detachment.
2. Describe the etiopathogenesis, clinical features, complications  
and management of Neovascular Glaucoma.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Argon Laser trabeculoplasty.
2. OCT.
3. Neuro protection in Glaucoma.
4. Femtosecond Lasers.
5. Cytomegalo virus (CMV) Retinitis.
6. Lateral orbitotomy.
7. Stem cells in Ophthalmology.
8. Fine Needle Aspiration Cytology (FNAC).
9. Unilateral Aphakia – management.
10. Chronic Irido Cyclitis – Complications and management.

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**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. Etiopathogenesis, clinical features and recent management of macular hole.
2. Discuss the etiopathogenesis, clinical features, complications and management of Retinopathy of Prematurity.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Epikeratopakia.
2. Graft Rejection.
3. Pseudo hypopyon.
4. Choroidal folds.
5. Xeroderma Pigmentosa.
6. Corneal vascularisation.
7. Pharmacologic modulations of Glaucoma filtration surgery.
8. Papilloedema.
9. Orbital implants.
10. Tryphan blue dye.

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**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. Intra ocular foreign bodies, its effects on eye, clinical features and management.
2. LASER applications in glaucoma; discuss in detail.

**II. Write notes on:**

**(10 x 7 = 70)**

1. VOGT – Koyanagi – Harada syndrome.
2. Ultrasound bio microscopy.
3. Short wave automated perimetry.
4. Limbal stem cell deficiency and its management.
5. Trans Pupillary Thermotherapy (TPTT).
6. Management of sub retinal fluid and its complications.
7. Viscoanalostomy.
8. Synoptophore.
9. Bleb related complication in glaucoma surgery.
10. Management of post enucleation socket syndrome.

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[LQ 220]

AUGUST 2020  
(MAY 2020 SESSION)

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. Differential diagnosis and management of shallow anterior chamber following intraocular surgery
2. Causes and management of subretinal neovascular membrane

**II. Write notes on:**

**(10 x 7 = 70)**

1. Orbital decompression
2. Biologics in uveitis
3. Wide field fundus fluorescein angiography
4. Advanced diabetic eye disease
5. Ocular coherence tomography-angiography
6. Microinvasive vitreoretinal surgery
7. Nanotechnology based drug delivery system in ophthalmology
8. Discuss iridocorneal endothelial syndromes
9. Recent advances in imaging of optic disc in glaucoma
10. Pachymetry and its uses

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[LS 220]

NOVEMBER 2020  
(OCTOBER 2020 SESSION)  
M.S. DEGREE EXAMINATION

Sub. Code: 2226

**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. Describe procedure, indications and complications of exentration.
2. Causes and management of exudative retinal detachment.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Retinal implants
2. Adjustable suture in squint surgery
3. Role of ultrasound biomicroscopy in anterior segment disease
4. Advances in visualization system used in trans conjunctival vitrectomy
5. Role of neuro protectors in glaucoma
6. Etiology and management of uveitis in children
7. Evaluation of ;patient undergoing refractive corneal surgery
8. Intra Ocular Lens power estimation in postlasik eyes
9. Sterilization of Operation Theatre and ophthalmic instruments
10. Recent concepts in low vision AIDS

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[MS 0721]

JULY 2021

Sub. Code: 2226

(MAY 2021 SESSION)

**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. Discuss the classification, investigations and the recent treatment modalities of Central Retinal Vein Occlusion (CRVO).
2. Discuss the types, indications and complications of lamellar keratoplasty.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Neuro protection in glaucoma.
2. Immunosuppression in uveitis.
3. Endoscopic DCR.
4. Secondary IOL's in the management of aphakia.
5. Diabetic macular oedema- current practice pattern.
6. Keratoprosthesis.
7. Faden procedure.
8. Selective Laser Trabeculoplasty (SLT).
9. Anti VEGF agents
10. Recent trends in the management of dry eye.

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