

APRIL 2001

[KD 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper I — REFRACTION, PRINCIPLES OF
ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe methods of Assessing visual acuity in Children. (25)
 2. Discuss causes of blindness in our country and role played by various Government and Non govt. organisation in control of Blindness. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Glaucoma screening
 - (b) Duane's retraction syndrome
 - (c) Unocular Diplopia
 - (d) Retinoscopy
 - (e) Keratomalacia.
-

NOVEMBER 2001

[KE 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper I — REFRACTION PRINCIPLES OF
ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss communicable conjunctival diseases.
Mention briefly preventive measures. (25)
 2. Describe subjective tests for correction of
refractive errors and principles of presbyopic correction.
(25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Duane's Retraction Syndrome.
 - (b) Hess Screen.
 - (c) Keratometry.
 - (d) Eye Examination in School Children.
 - (e) Use of contact lens in correction of astigmatism.
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MARCH 2002

[KG 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper I — REFRACTION, PRINCIPLES OF
ORTHOPTICS AND COMMUNITY OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe hypermetropia and its management. (25)
 2. Describe retinoblastoma and its management. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Acquired astigmatism.
 - (b) Eye donation.
 - (c) Centring and decentring of lenses.
 - (d) Operation theater sterilisation.
 - (e) Management of congenital cataract.
-

SEPTEMBER 2002

[KH 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper I — REFRACTION, PRINCIPLES OF
ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

1. Describe the national programme for prevention and control of blindness. (25)
 2. Describe the various methods for correcting refractive errors. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Eye surgery in camps.
 - (b) Esotropia.
 - (c) Pachymetry.
 - (d) Low vision aids.
 - (e) Night blindness.
-

APRIL 2003

[KI 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper I — REFRACTION, PRINCIPLES OF
ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss myopia and surgical methods of management of myopia. (25)
 2. Discuss management of a child of 5 years with concomitant convergent squint (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) National programmes for control of blindness
 - (b) Tonography
 - (c) Colour blindness
 - (d) Autorefractometer
 - (e) Preventable blindness.
-

OCTOBER 2003

[KJ 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper I — REFRACTION, PRINCIPLES OF
ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
Forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

**M.C.Q. must be answered SEPARATELY on the
answer sheet provided as per the instructions given
on the first page of the M.C.Q. Booklet.**

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay questions :

(2 × 15 = 30)

**1. Classify Esotropia and describe in detail its
management. (15)**

**2. Describe in detail the various surgical procedures
for Myopia. (15)**

3. Short notes :

(10 × 5 = 50)

(1) Legal Blindness.

(2) Disposable contact lenses.

(3) Automated refractometer.

(4) Chromatic Aberration.

(5) Non-magnifying visual aids.

(6) Microtropia.

(7) Faden procedure.

(8) Brown syndrome.

(9) Vision 2020.

(10) Primary eye care services.

AUGUST 2004

[KL 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper I — REFRACTION, PRINCIPLES OF
ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) What is accommodation? Discuss anomalies of accommodation.

(2) Discuss childhood blindness in India.

II. Short notes : (10 × 5 = 50)

(a) Amblyopia

(b) Visually evoked potential (VEP)

(c) Jacksons cross cylinders

(d) Cover tests

(e) V pattern

(f) Adjustable sutures

(g) Applanation tonometry

(h) Hospital cornea retrieval (retrieval)

(i) Progressive lenses

(j) Complications of contact wear.

FEBRUARY 2005

[KM 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part — II

**Paper I — REFRACTION, PRINCIPLES OF
ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

**(1) Describe in detail about Indirect
Ophthalmoscopy.**

**(2) How will you investigate a case of
Concomitant Squint?**

II. Short notes : (10 × 5 = 50)

(a) Pathological Myopia

(b) KERATOMETER

(c) Cover test

(d) Abnormal Retinal Correspondence (ARC)

(e) Moddox Rod

(f) Penalisation

(g) Jackson's cross cylinders

(h) Tests for Malingering

(i) N.P.C.B.

(j) Vitamin 'A' deficiency.

MARCH 2006

[KO 1566]

Sub. Code : 3109

**DIPLOMA IN OPHTHALMOLOGY EXAMINATION.
REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

- 1. Describe the optical principles of Retinoscopy.**
- 2. Discuss the various types of amblyopias and their management.**

II. Short notes : (10 × 5 = 50)

- (a) Sturm's Conoid**
- (b) Microtropia**
- (c) Duochrome test.**
- (d) Role of DBCS in prevention of blindness.**
- (e) Vision 2020.**

(f) Types of Phorias.

(g) Donder's reduced eye.

(h) Maddox rod test.

(i) Uses of prisms in ophthalmology.

(j) Optics of indirect ophthalmoscopy – draw diagram.

[KQ 1566] **MARCH 2007** Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

**REFRACTION, PRINCIPLES OF ORTHOPTICS
AND COMMUNITY OPHTHALMOLOGY**

Common to :

(Candidates admitted from 1993-94 onwards)

And

(Candidates admitted from 2004-05 onwards)

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Vision 20/20 Right to sight discuss action
plan to control blindness. (20)

(2) Examine and management of alternate
squint in 5 year old child. (15)

(3) Define Amblyopia. Discuss the Management
of Amblyopias. (15)

II. Short notes : (6 × 5 = 30)

(a) Sturm's conoid.

(b) Optic of contact lens.

(c) Myopic fundus.

(d) Lasik.

(e) Notation of prism.

(f) Jackson Cross Cylinder.

[KR 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Common to

(Candidates admitted upto 2003-04)

and

(Candidates admitted from 2004-05 onwards)

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(1) Discuss Myopia and its management. (20)

(2) Indirect Ophthalmoscopy. (15)

(3) Describe the risk factors, types, complications and management of a case of central Retinal vein occlusion. (15)

II. Short Notes :

(6 × 5 = 30)

(a) Keratoconus

(b) Subjective verification of refraction

(c) NPCB

(d) IOL power calculation and prescription

(e) PRISMS in Ophthalmology

(f) Presbyopia.

MARCH 2008

[KS 1566]

Sub. Code : 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.
REFRACTION, PRINCIPLES OF ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY

(Common to all Regulations)

Q.P. Code : 353109

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

- I. Essay : (2 × 20 = 40)
1. Describe Astigmatism and its management. (20)
 2. What are the causes of Blindness in our country and describe in detail national programme for control of Blindness in India. (20)
- II. Short notes on : (10 × 6 = 60)
1. Reduced eye.
 2. Pseudophakia.
 3. Fundal changes in myopia.
 4. IOL power calculation and prescription.
 5. Keratometry.
 6. Vision 2020.
 7. Rehabilitation of Blind.
 8. Electro oculography (E.O.G).
 9. Toric contact lenses.
 10. Surgical correction of Hypermetropia.
-

MARCH -2009

[KU 1566]

Sub. Code: 3109

**DIPLOMA IN OPHTHALMOLOGY EXAMINATION.
Paper II – REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

(Common to all Regulations)

Q.P. Code : 353109

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Describe Hypermetropia and management.
2. Describe NPCB. (National Programme for control of Blindness).

II. Write short notes on : (10 X 6 = 60)

1. Intra ocular contact lens (ICL).
2. Aphakia.
3. IOL power calculation.
4. Presbyopic glasses.
5. Pachymetry.
6. E.R.G.
7. Rehabilitation of Blind.
8. Extended wear contact lens.
9. Prisms in Ophthalmology.
10. Convergence insufficiency.

September - 2009

[KV 1566]

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

**Paper II – REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY
(Common to all Regulations)**

Q.P. Code : 353109

Time : Three hours

Maximum : 100 marks

**Draw suitable diagram wherever necessary.
Answer ALL questions.**

I. Essay questions : (2 X 20 = 40)

1. Describe the optical principles of indirect and direct ophthalmoscopy.
2. Discuss concomitant esotropia in children.

II. Write short notes on : (10 X 6 = 60)

1. Sturms conoid.
2. Maddox rod test.
3. District blindness control society (DBCS).
4. Duochrome test.
5. Presbyopia.
6. Organization of eye camps.
7. Soft contact lenses.
8. Surgical correction of myopia.
9. Multi focal IOLs.
10. Different types of blindness and rehabilitation of the blind

March 2010

[KW 1566]

Sub. Code: 3109

**DIPLOMA IN OPHTHALMOLOGY EXAMINATION
REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

(Common to all candidates)

Q.P. Code : 353109

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Describe various refractive errors and its management.
2. Discuss National programme for control of blindness.

II. Write short notes on :

(10 x 6 = 60)

1. Optics of the slit lamp.
2. Amblyopia.
3. Dry eyes.
4. Phototransduction.
5. Types of contact lens.
6. Fundus picture of myopia.
7. Types of Intra ocular lens.
8. WHO classification and treatment of xerophthalmia.
9. Trachoma.
10. Concomitant and incomitant squint.

September 2010

[KX 1566]

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION.

**Part II-Paper I for Candidates admitted upto 2003-04 & Candidates admitted
from 2008-09 onwards**

And

Paper II for Candidates admitted from 2004-05 to 2007-08

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Q.P. Code : 353109

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. What is Eye Bank? Discuss in detail Keratoplasty and Donor corneal preservation.
2. Describe the theories of Accommodation. Describe the various anomalies in Accommodation.

II. Write short notes on :

(10 X 6 = 60)

1. Myopia and its management.
2. Types of Intraocular Lens.
3. Amblyopia.
4. Retinoscopy.
5. Ultrasound in ophthalmology.
6. National Blindness Control Programme.
7. Anisometropia.
8. Aphakia.
9. Diplopia.
10. Contact lenses.

APRIL 2011

[KY 1566]

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code : 353109

**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. LASERS in ophthalmology. What is refractive surgery?	11	35	15
2. National programme on Control of Blindness. What are the advantages and disadvantages?	11	35	15

II. Write notes on :

1. Cylinders.	4	10	7
2. Fundus picture in myopia.	4	10	7
3. Cornea plana.	4	10	7
4. Myopia.	4	10	7
5. Double Maddox Rod.	4	10	7
6. RAF ruler.	4	10	7
7. Rigid gas permeable contact lens.	4	10	7
8. Base eye camp.	4	10	7
9. Basis of sterilization of operation theatre. How is it done?	4	10	7
10. Orthoptic exercises.	4	10	7

October 2011

[KZ 1566]

Sub. Code: 3109

**DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION
REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code : 353109

**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. What is Human corneal retrieval program? What are the contraindications? How is cornea preserved and assessed? What are the uses of the HCRP? Who are the Beneficiaries? | 11 | 35 min. | 15 |
| 2. How will you correct Aphakia? | 11 | 35 min. | 15 |

II. Write notes on :

- | | | | |
|---|---|---------|---|
| 1. What is diplopia? – Basics in diplopia charting. | 4 | 10 min. | 7 |
| 2. Foldable IOL. | 4 | 10 min. | 7 |
| 3. MRI in ophthalmology. | 4 | 10 min. | 7 |
| 4. Prisms in ophthalmology. | 4 | 10 min. | 7 |
| 5. LASIK. | 4 | 10 min. | 7 |
| 6. Myopia. | 4 | 10 min. | 7 |
| 7. Toxic amblyopia. | 4 | 10 min. | 7 |
| 8. Indirect ophthalmoscopy. | 4 | 10 min. | 7 |
| 9. OCT in ophthalmology. | 4 | 10 min. | 7 |
| 10. Anisometropia. | 4 | 10 min. | 7 |

[LA 1566]

April 2012

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Q.P. Code : 353109

**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. What is corneal blindness? What are its causes and management? What are prerequisites for arranging an eye bank? | 16 | 35 | 15 |
| 2. What is astigmatism? Mention different types and management. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. LASIK-Indications and Complications. | 4 | 10 | 7 |
| 2. Cover and uncover test-Importance in evaluation of strabismus. | 4 | 10 | 7 |
| 3. Disadvantages of aphakic glasses and management of unilateral Aphakia. | 4 | 10 | 7 |
| 4. Etiology, clinical features and management of Vitamin A deficiency. | 4 | 10 | 7 |
| 5. Anomalous retinal correspondence –tests. | 4 | 10 | 7 |
| 6. Jackson's Cross cylinder-Types and uses in refraction. | 4 | 10 | 7 |
| 7. IOL Power calculation-types and its problems. | 4 | 10 | 7 |
| 8. Tonography-Importance in early detection of glaucoma. | 4 | 10 | 7 |
| 9. Ectopia lentis-Causes and management | 4 | 10 | 7 |
| 10. N.P.C.B -Objectives and functions | 4 | 10 | 7 |

[LB 1566]

OCTOBER 2012

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND COMMUNITY
OPHTHALMOLOGY**

Q.P. Code : 353109

**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. Describe various types of Hypermetropia and their Corrections.	16	35	15
2. Discuss the management of a case of Convergent Squint in a five year old child.	16	35	15

II. Write notes on :

1. Indications and steps of Radial keratotomy	4	10	7
2. Hirschberg's test-Importance in management of Squint.	4	10	7
3. Vision 2020-Objectives in prevention of blindness.	4	10	7
4. Strums conoid-Draw a diagram and explain its importance.	4	10	7
5. Duochrome test-Importance in refraction.	4	10	7
6. Tests for binocular single vision-Importance in issuing certificates.	4	10	7
7. Hospital corneal retrieval programme-Importance in eye donation and collection.	4	10	7
8. IOL in children-Power calculation and problem.	4	10	7
9. Congenital ptosis-Etiology and management.	4	10	7
10. Orthokeratalgia-Indications and procedure.	4	10	7

DIPLOMA IN OPHTHALMOLOGY (D.O) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss in detail the aetiology, classification, signs and symptoms and management of amblyopia.
2. Discuss the causes of childhood blindness and strategies undertaken to reduce its impact.

II. Write notes on:

(10X7=70)

1. Cross cylinder
2. Plateau iris
3. Maddox rod and wing
4. Colour vision
5. Pannum's area
6. Types of contact lenses and their advantages
7. Conductive keratoplasty
8. Electro oculogram
9. Pathological myopia
10. Organization of an eye camp

DIPLOMA IN OPHTHALMOLOGY (D.O) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss in detail the aetiology, classification, signs and symptoms and management of congenital cataract.
2. Describe Tonometry. Discuss the types of tonometers available and the advantages and disadvantages of each.

II. Write notes on:

(10X7=70)

1. Discuss the types of Occlusion therapy and its uses.
2. Describe in detail about Anisometropia and management.
3. Bagolini's striated glasses.
4. Sturm's conoid.
5. Surgical corrections of myopia; their uses and problems.
6. Latest developments in Prosthokeratoplasty.
7. Discuss in detail about Vision 2020.
8. Autoclaving.
9. Botulinum toxin and its uses in ophthalmology.
10. Low vision aids; discuss about the types and their uses.

(LE 1566)

APRIL 2014

Sub. Code:3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P.Code: 353109

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. What is astigmatism? Mention the different types and management.
2. Discuss in detail the aetiology, classification, signs, symptoms and management of Amblyopia.

II. Write notes on:

(10X7=70)

1. Toric Contact lenses.
2. Vision 2020.
3. Reduced Eye.
4. Fundus Picture in Myopia.
5. Electro Retinogram – ERG.
6. Prisms in Ophthalmology.
7. Convergence Insufficiency.
8. Strims Conoid.
9. Cornea Plana.
10. Orthoptic Exercises.

(LF 1566)

OCTOBER 2014

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P.Code: 353109

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Classify Esodeviation. Write in detail about the clinical features, investigations and management of congenital esotropia.
2. Describe in detail pathophysiology, clinical features, stages and management of diabetic retinopathy.

II. Write notes on:

(10 x 7 = 70)

1. District blindness control society.
2. Binocular single vision.
3. Worth four dot test.
4. Hypermetropia.
5. Occlusion therapy
6. Visual evoked potential.
7. Myopia
8. Childhood blindness.
9. Eye banking.
10. Cylinders

[LG 1566]

APRIL 2015

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION
REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY

Q.P. Code : 353109

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Various National programmes for control of Blindness.
2. Definition, classification, clinical features, complications and management of myopia.

II. Write notes on:

(10 x 7 = 70)

1. Chemical injuries of eye.
2. Ultrasound Biomicroscopy.
3. Staging of retinopathy of prematurity.
4. Enophthalmos.
5. Dynamic Retinoscopy.
6. Auto Refractometer.
7. Vitamin A deficiency and prophylaxis.
8. Hess screen.
9. Corneal blindness in children.
10. Telescopes in Ophthalmology.

[LH 1566]

OCTOBER 2015

Sub. Code: 3109

**DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION
REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. What is retinoscopy? What are the types? Discuss the principles and its uses.
2. Enumerate the causes, clinical features, complications and management of amblyopia.

II. Write notes on:

(10 x 7 = 70)

1. Uses of contact lens.
2. School screening camp.
3. Orthoptic exercises.
4. WHO classification of Blindness and causes and prevention.
5. Hess Screen.
6. Duochrome test.
7. Abnormal retinal correspondence.
8. Low visual aids.
9. Tests to differentiate restrictive and paralytic strabismus.
10. Chemical Injury.

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P.Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What is Accommodation? Discuss the Anomalies of accommodation and its management.
2. Discuss the functioning of National Programme of Prevention of Blindness.

II. Write notes on:

(10 x 7 = 70)

1. Fogging Technique.
2. Autorefractometer.
3. Hypermetropia.
4. Prisms in Ophthalmology.
5. Assessment of Visual acuity in children.
6. Nystagmus.
7. Schematic eye.
8. Spherical Aberration.
9. Refractive Index of the media and its importance in the eye.
10. Binocular single vision.

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P.Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What is Myopia? Discuss the different types and its management.
2. What is Vision 2020? Discuss how it is implemented in India?

II. Write notes on:

(10 x 7 = 70)

1. Duochrome Test.
2. Retinoscopy.
3. Low Visual Aids.
4. Assessment of squint.
5. Amblyopia.
6. Sturms conoid.
7. Chromatic Aberration.
8. Visual Axis of the eye.
9. Cross cylinders.
10. Astigmatism.

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P.Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What is Retinoscopy? What are the types? Discuss the principles and its uses.
2. Discuss low visual Aids - various types and its uses in ophthalmology.

II. Write notes on:

(10 x 7 = 70)

1. Presbyopia and its management.
2. Management of uniocular aphakia.
3. Discuss steps taken to prevent blindness in children.
4. Pinhole Test-principle and its uses. How to use it in high refractive errors?
5. Occlusion Therapy.
6. District blindness control society (D B C S).
7. Uses of contact lens.
8. Astigmatism and its management.
9. Convergence insufficiency and its management.
10. Cross cylinder – Types and uses.

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P.Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. IOL power calculation in various clinical situations and describe the causes for errors in Biometry.
2. Anomalies of accommodation and convergence with a note on methods to correct each one of them.

II. Write notes on:

(10 x 7 = 70)

1. Childhood blindness.
2. Log MAR charts.
3. Pathological myopia.
4. Conoid of Strums.
5. Eye donation fortnight celebrations.
6. Phakic ICL.
7. Corneal topography.
8. Jackson's cross cylinder.
9. Conductive keratoplasty.
10. Rehabilitation of blind.

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P.Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What are the common causes of childhood blindness in India? Discuss the aetiology, classification, signs, symptoms and management of congenital cataract.
2. What is hypermetropia? Discuss about the different types, signs, symptoms and management of hypermetropia.

II. Write notes on:

(10 x 7 = 70)

1. Fundus picture of myopia.
2. Sturm's conoid.
3. Diplopia charting.
4. Autoclaving.
5. Orthokeratology.
6. Intra ocular lens types.
7. Prisms in ophthalmology.
8. Staging in Retinopathy of Prematurity.
9. Panum's area.
10. Cover -Uncover test.

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Compound myopic astigmatism and describe the methods for its surgical correction.
2. Eye banking and describe the aim and functions of a Model Eye Bank.

II. Write notes on:

(10 x 7 = 70)

1. Duo chrome test.
2. Amblyopia in school children.
3. Principles of plane mirror retinoscopy.
4. Synoptophore.
5. Surgical correction of Aphakia.
6. Optical aberrations.
7. Diagnostic contact lenses.
8. Low vision aids.
9. Categories of visual disability.
10. Industrial safety measures to prevent ocular injuries.

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Enumerate the causes, clinical features, complications and management of Amblyopia.
2. What is corneal blindness? What are its causes, management and Prevention?

II. Write notes on:

(10 x 7 = 70)

1. Anisometropia.
2. Fogging technique.
3. River Blindness.
4. Glaucoma control programme.
5. Optical principles of Direct and Indirect Ophthalmoscopy.
6. Eye care services in primary Health centres.
7. Orthoptic exercises.
8. Progressive Lens.
9. Colour Blindness.
10. Diabetic retinopathy screening programme.

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What are the causes of blindness in our country? Describe in detail about the National programme for Control of blindness.
2. Describe the various methods for correcting Refractive errors.

II. Write notes on:

(10 x 7 = 70)

1. Uniocular Aphakia.
2. Occlusion therapy.
3. Visual Axis of the Eye.
4. Spherical Aberration.
5. Vit-A deficiency.
6. Trachoma Control programme.
7. Eye camp in schools.
8. Foldable IOL.
9. Corneal Blindness.
10. Operation theatre sterilization methods.

[LQ 1566]

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What are the functions of eye bank. Describe in detail the preservation of donor corneal tissue.
2. Describe various types hypermetropia and its management.

II. Write notes on:

(10 x 7 = 70)

1. Night blindness.
2. Sturm's conoid and its significance
3. Various tests of color vision.
4. Botulinum toxin and its use in ophthalmology
5. Types of low vision aids and its uses.
6. District Blindness Control Society.
7. Worth Four Dot Test
8. Occlusion therapy.
9. Hess screen.
10. School screening programme.

[LS 1566]

NOVEMBER 2020
(OCTOBER 2020 SESSION)

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Classify esotropia and describe in detail about its evaluation and management.
2. Describe in detail about childhood blindness in India. Write about various programs for prevention of childhood blindness .

II. Write notes on:

(10 x 7 = 70)

1. Pathological myopia.
2. Uses of prisms.
3. Microtropia.
4. Vision 2020.
5. Types of contact lens.
6. IOL power calculation.
7. Reduced eye.
8. Pachymetry.
9. Maddox rod test.
10. Ultra sound in ophthalmology.

(DO 0721)

JULY 2021

Sub. Code: 3109

(MAY 2021 SESSION)

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the methods of assessing the visual acuity in children.
2. Discuss about refractive surgeries in treatment of myopia.

II. Write notes on:

(10 x 7 = 70)

1. Duane's retraction syndrome.
2. Vitamin A deficiency.
3. Toric contact lenses.
4. Bifocals.
5. Automated refractometre.
6. Adjustable sutures.
7. Jackson's cross cylinder.
8. Tests for malingering.
9. Sensory amblyopia.
10. Cover test.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[DO 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Define Amblyopia. Write in detail about the Classification, Etiopathogenesis and Management of Amblyopia.
2. Define Astigmatism. Discuss in detail about the Etiology, Types, Optics and Management of Astigmatism.

II. Write notes on: **(10 x 7 = 70)**

1. Brown Syndrome.
2. Orthokeratology.
3. Faden Procedure.
4. Progressive Lenses.
5. Scleral Lenses.
6. Penalisation.
7. Duochrome Test.
8. Pathologic Myopia
9. Optics of Indirect Ophthalmoscopy.
10. Convergence Insufficiency.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(DO 0522)

MAY 2022

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Define hypermetopia and explain the types and treatment of hypermetropia.
2. WHO Classification of blindness and role of Paramedical ophthalmic assistant in primary eye care centre.

II. Write notes on:

(10 x 7 = 70)

1. Aphakia and its correction
2. Synoptophore and its uses
3. Worth Four dot test
4. D Bifocal lenses
5. Kinetic perimetry
6. Teller Acuity test
7. Surgical corrections of Presbyopia
8. Soft Contact Lenses
9. Anomalies of Accommodation
10. Vitamin A Deficiency.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(DO 1022)

OCTOBER 2022

Sub. Code: 3109

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the Theories of Retinoscopy.
2. Define Myopia and write about classification and treatment of Myopia.

II. Write notes on:

(10 x 7 = 70)

1. Rigid contact lenses.
2. Congenital Color Blindness.
3. Visually evoked potential.
4. Photostress test.
5. Classification of Visual Impairment.
6. Vitamin A deficiency.
7. Corneal Blindness.
8. Maddox Rod.
9. Progressive spectacle lenses.
10. Applanation tonometer.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(DO 0723)

JULY 2023

Sub. Code: 3109

(MAY 2023 EXAM SESSION)

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**REFRACTION, PRINCIPLES OF ORTHOPTICS AND
COMMUNITY OPHTHALMOLOGY**

Q.P. Code: 353109

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Classify Esotropia and describe in detail about its evaluation and management.
2. What are the functions of Eye bank? Describe in detail the preservation of Donor Corneal Tissue.

II. Write notes on:

(10 x 7 = 70)

1. Phakic IOLs.
2. Teleophthalmology.
3. Categories of Visual disability.
4. IOL Power calculation on post Refractive surgery.
5. Anomalies of accommodation and convergence.
6. Management of Uniocular Aphakia.
7. Autorefractometer.
8. Amblyopia. Definition, classification Recent advances in management.
9. Subjective verification of refraction.
10. Contact lens for Keratoconus.
