

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) Duanes Retraction Syndrome.
 - (b) Hess Screen.
 - (c) Keratometry.
 - (d) Eye Examination in School Children.
 - (e) Use of contact lens in correction of
astigmatism.
-

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 decentering 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) Donders' 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 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) 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.

September-2007

[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 Time Marks
(Max.) (Max.) (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 Time Marks
(Max.) (Max.) (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 Time Marks
(Max.) (Max.) (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 |

(LC 1566)

APRIL 2013

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

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 Ambyopia.

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. Strums 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
