

APRIL 2001

[KD 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION

(New Regulations)

Part I

OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY, PHYSIOLOGY AND PATHOLOGY OF
THE EYE

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Describe the course of Trochlear nerve with its relations. (25)
2. Discuss factors which maintain corneal transparency (25)
- 3 Write short notes on (5 × 10 = 50)
 - (a) Tear film anatomy
 - (b) Autosomal recessive inheritance
 - (c) Colour blindness
 - (d) Ocular Toxoplasmosis
 - (e) Acyclovir

NOVEMBER 2001

[KE 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part I

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY
ANATOMY PHYSIOLOGY AND PATHOLOGY OF
THE EYE**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the anatomy of visual pathways and visual cortex. Mention localising signs for lesions of visual pathway. (25)
2. Discuss the mechanism of aqueous production and its drainage.

Mention various abnormalities seen in the angle of anterior chamber of Gonioscopy. (25)

3. Write briefly on : (5 × 10 = 50)
 - (a) Tests for colour vision.
 - (b) Anti fungal drugs.
 - (c) Tumours of Lacrymal gland.
 - (d) Fluorescein Angiography in macular lesions.
 - (e) Parasites in ophthalmology.
-

MARCH 2002

[KG 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part I

OPHTHALMOLOGY INCLUDING MICROBIOLOGY
ANATOMY, PHYSIOLOGY AND PATHOLOGY OF
THE EYE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the anatomy of the optic nerve. Add a note on ophthalmoscopic features of normal optic disc. (25)
 2. Describe the formation and circulation of aqueous humour. Add a note on maintenance of intraocular pressure. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Blood retinal barrier.
 - (b) Cysticercus.
 - (c) Histopathology of endothelial graft rejection.
 - (d) Adeno viruses.
 - (e) Binocular single vision.
-

SEPTEMBER 2002

[KH 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part I

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY, PHYSIOLOGY, AND PATHOLOGY OF
THE EYE**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the anatomy of the retina with the help of a diagram. (25)
2. Describe the theories of colour vision. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Cycloplegics in ophthalmology
 - (b) Immuno suppressive agents in ophthalmology

(c) Fungal corneal ulcer

(d) Herpes zoster and the eye

(e) Changes in the macula due to diabetes

APRIL 2003

[KI 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part I

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY PHYSIOLOGY AND PATHOLOGY OF
EYE**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the anatomy of the angle of anterior chamber and developmental anomalies associated with it. (25)
 2. Discuss the factors responsible for maintenance of Intra-ocular pressure. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Orbital cellulitis
 - (b) Keratic precipitates
 - (c) Rosettes
 - (d) Vitreous haemorrhage
 - (e) Atropine.
-

OCTOBER 2003

[KJ 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part I

OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY PHYSIOLOGY AND PATHOLOGY OF
EYE

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 on the
first page of M.C.Q. Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay :

(2 × 15 = 30)

1. Describe the blood supply of visual pathway with suitable diagrams.
2. Discuss the aetiopathology, diagnosis and management of chronic simple glaucoma.

3. Short notes :

(10 × 5 = 50)

- (1) The Riddoch phenomenon.
- (2) Structures passing through superior orbital fissure.
- (3) Antifungal drugs.
- (4) Goblet cells.
- (5) Acanthamoeba.
- (6) Cilio-Retinal Artery.
- (7) Pathology in Thyroid Myopathy.
- (8) Latanoprost.
- (9) Panum's Area.
- (10) Tests for colour vision.

AUGUST 2004

[KL 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part I

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY PHYSIOLOGY AND PATHOLOGY OF
EYE**

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. Essays.

(2 × 15 = 30)

(1) Describe bony orbit, add a note on lateral orbitotomy.

(2) Describe the anatomy of the cornea, add a note on maintenance of corneal transparency and pathology of exposure keratitis.

II. Short notes on :

(10 × 5 = 50)

(a) Cytomegalo virus

(b) Histopathology of retino blastoma

(c) Congenital optic disc anomaly

(d) Levator palpebrae superioris

(e) Dorzolamide

(f) Anatomy of the angle of the anterior chamber

(g) Rubella syndrome

(h) Cysticercosis

(i) Colobomas

(j) Anatomy of the lacrimal drainage system.

Add a note on probing.

FEBRUARY 2005

[KM 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

(New Regulations)

Part I

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY PHYSIOLOGY AND PATHOLOGY
OF THE EYE**

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 questions :

(2 × 15 = 30)

(1) Describe the Gonioscopic anatomy, clinical grading and surgical importance of angle of Anterior Chamber.

(2) What is leucocoria? Describe the aetiopathology, clinical feature of retinoblastoma.

II. Short notes :

(10 × 5 = 50)

(a) Tear film.

(b) Cavernous sinus.

(c) MORAX-AXENFIELD BACILLUS.

(d) Scotoma.

(e) Antimetabolite.

(f) Macular function tests.

(g) Levator palpebrae superioris.

(h) Theories of color vision.

(i) E.R.G.

(j) Stemcell.

SEPTEMBER 2006

[KP 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY, PHYSIOLOGY AND
PATHOLOGY OF THE EYE**

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 questions :

(1) Describe the Anatomy of the Lacrimal drainage system. Explain the mechanism of drainage of tears and applied physiology of the tear film. (20)

(2) Discuss the ophthalmic manifestations of Varicella-Zoster Infection. (15)

(3) Describe the anatomy of angle of anterior chamber and its significance in Gonioscopy. (15)

II. Short notes :

(6 × 5 = 30)

(a) Marcus—Gunn Jaw winking phenomenon

(b) Diplopia

(c) Histopathology of Retinoblastoma

(d) What are the causes of ptosis? How is it corrected?

(e) What is the physiological role of Blinking? What complications can absence of blinking procedure produce?

(f) Recent Advances in Medical management of Glaucoma.

MARCH 2006

[KO 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY PHYSIOLOGY AND PATHOLOGY OF
THE EYE

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 questions : (2 × 15 = 30)

(1) Describe the course of sixth cranial nerve.

(2) Describe the corneal physiology and mechanism of its transparency.

II. Short notes : (10 × 5 = 50)

(a) Polymerase chain reaction.

(b) Histopathology of malignant melanoma.

(c) Anatomy of angle of anterior chamber.

(d) AIDS virus.

(e) Tests for binocular vision.

(f) Abnormal pupillary reflexes.

(g) Dark adaptation curve.

(h) Blood supply of optic nerve head.

(i) EOG.

(j) Immuno-suppressive drugs.

MARCH 2007

[KQ 1565]

Sub. Code : 3108

DIPLOMA IN OPHTHALMOLOGY (D.O.)
EXAMINATION

OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY, PHYSIOLOGY AND PATHOLOGY OF
THE EYE

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. Cultural characteristics, Morphology, staining properties of the Gonococcus and its ocular lesions. (20)
2. Describe the Anatomy of the apex of the orbit with Diagram. (15)

3. Describe pathology and management of melanoma of the uvea and its clinical significance. (15)

II. Short notes : (6 × 5 = 30)

- (a) Corneal Transferrancy
- (b) Gross and Microscopic Anatomy of uvea
- (c) Aqueous Humour Dynamics
- (d) Anatomy of Upper eye lid
- (e) Origin, incertion and actions of recti, muscles.
- (f) Lens Metabolism.

September-2007

[KR 1565]

Sub. Code : 3108

**DIPLOMA IN OPHTHALMOLOGY EXAMINATION.
OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY, PHYSIOLOGY AND PATHOLOGY OF
THE EYE**

Common to (Candidates admitted upto 2003-2004)

and

(Candidates admitted From 2004-2005 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) Describe the anatomy of visual pathway and its blood supply. (20)

(2) Discuss Binocular Vision. (15)

(3) Discuss the factors maintaining Intra ocular pressure. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Sex linked Diseases – Genetic Counseling.
- (b) Theories of Color Vision.
- (c) Morax – Axenfeld Bacillus.
- (d) Dalen Fuch's Nodules.
- (e) Pathology of Retinoblastoma.
- (f) Development of Vitreous.

MARCH 2008**[KS 1565]****Sub. Code : 3108**

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

Paper I — OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY, PHYSIOLOGY
AND PATHOLOGY OF THE EYE

Common to all Regulations

Q.P.Code : 353108

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

- I. Essay : (2 × 20 = 40)
 1. Describe in brief the development of the eye. (20)
 2. Describe the maintenance of corneal transparency. (20)

 - II. Write short notes on : (10 × 6 = 60)
 1. Tear film.
 2. Binocular vision.
 3. Photochemistry of vision.
 4. Parasympathetic drugs.
 5. Moraxella axenfeld bacilli.
 6. AIDS viruses.
 7. Trachoma.
 8. Antifungal drugs.
 9. Cysticercus.
 10. Lens metabolism.
-

MARCH -2009

[KU 1565]

Sub. Code: 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

**Paper I – OPTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY, PHYSIOLOGY AND PATHOLOGY OF THE EYE**

(Common to all Regulations)

Q.P. Code : 353108

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Describe the course of III cranial nerve.
2. Describe the development and anatomy of vitreous.

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

1. Limbus.
2. Corneal transparency.
3. Binocular vision.
4. Atropine in Ophthalmology.
5. Staphylococcus.
6. AIDS virus.
7. Grams staining.
8. Anti viral drugs.
9. Acanthamoeba.
10. Pathology of malignant melanoma.

September - 2009

[KV 1565]

Sub. Code: 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION.

**Paper I – OPHTHALMOLOGY INCLUDING MICROBIOLOGY,
ANATOMY, PHYSIOLOGY AND PATHOLOGY OF THE EYE**

(Common to all Regulations)

Q.P. Code : 353108

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Describe the anatomy of angle of anterior chamber and the gonioscopic appearance.
2. Discuss physiology of accommodation.

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

1. Visual pigments and rhodopsin cycle.
2. Histopathology of retinoblastoma.
3. Biochemistry of tears.
4. Development of lens.
5. Human leucocytic antigen (HLA) in eye diseases.
6. Laboratory diagnosis of Chlamydia trachomatis.
7. Anatomy of 6th cranial nerve.
8. Abnormal papillary reflexes.
9. Hypersensitivity in eye.
10. Herpes zoster virus.

March 2010

[KW 1565]

Sub. Code: 3108

DIPLOMA IN OPHTHALMOLOGY EXAMINATION

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY, ANATOMY,
PHYSIOLOGY AND PATHOLOGY OF THE EYE**

(Common to all candidates)

Q.P. Code : 353108

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Write in detail about the formation and circulation of intra ocular fluids and maintenance of intra ocular tension.
2. Discuss the anatomy of bony orbit. Add a note on blow-out fracture of orbital floor.

II. Write short notes on :

(10 x 6 = 60)

1. Anatomy of eye lids.
2. Angle of anterior chamber.
3. Theories of colour vision.
4. Blood-aqueous barrier.
5. Metabolism of cornea.
6. Drugs used in glaucoma.
7. Parasympatholytic drugs.
8. Benign and malignant tumours of the eye and adnexa.
9. Cysticercosis.
10. Orbital mucormycosis.

September 2010

[KX 1565]

Sub. Code: 3108

DIPLOMA IN OPHTHALMOLOGY (D.O.) EXAMINATION.

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

And

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

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY, ANATOMY,
PHYSIOLOGY AND PATHOLOGY OF THE EYE**

Q.P. Code : 353108

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss the maintenance of Corneal Transparency.
2. Describe the Anatomy of the lid with a neat diagram. Discuss the evaluation and management of ptosis.

II. Write short notes on :

(10 X 6 = 60)

1. Formation of Aqueous humour.
2. Histopathology of malignant melanoma of the uveal tract.
3. Theories of colour vision.
4. Development of Vitreous.
5. Pathology of Pseudotumour of orbit.
6. Ophthalmia Neonatorum.
7. Tear Substitutes.
8. Histopathology of Retinoblastoma.
9. Ocular Toxoplasmosis.
10. Argyl Robertson Pupil.

APRIL 2011

[KY 1565]

Sub. Code: 3108

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION
OPHTHALMOLOGY INCLUDING MICROBIOLOGY, ANATOMY,
PHYSIOLOGY AND PATHOLOGY OF THE EYE
Q.P. Code : 353108

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. Write about the formation and circulation of Intra ocular fluids and maintenance of intraocular tension.	11	35	15
2. Describe the anatomy of crystalline lens and discuss the biochemical changes in the lens leading to cataract formation.	11	35	15

II. Write notes on :

1. Anatomy of Retina.	4	10	7
2. Theories of Accommodation.	4	10	7
3. Fluorescein dye in ophthalmology.	4	10	7
4. Histopathology of Rhabdomyosarcoma of the eye.	4	10	7
5. Toxigenicity and hypersensitivity reaction.	4	10	7
6. AIDS viruses.	4	10	7
7. Anti fungal agents.	4	10	7
8. Hydatid cyst.	4	10	7
9. Vitreous substitutes.	4	10	7
10. Visual cortex.	4	10	7

October 2011

[KZ 1565]

Sub. Code: 3108

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION
OPHTHALMOLOGY INCLUDING MICROBIOLOGY, ANATOMY,
PHYSIOLOGY AND PATHOLOGY OF THE EYE

Q.P. Code : 353108

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 the anatomy of Oculomotor nerve.	11	35 min.	15
2. Write in detail pupillary reflexes and its anomalies.	11	35 min.	15

II. Write notes on :

1. Blood supply of Optic Nerve.	4	10 min.	7
2. Corneal transparency.	4	10 min.	7
3. Metabolism of Vitreous.	4	10 min.	7
4. Use of fluorescein dye in ophthalmology.	4	10 min.	7
5. Antifungal agents.	4	10 min.	7
6. Fusarium.	4	10 min.	7
7. Malignant melanoma – histopathological examination.	4	10 min.	7
8. Blood aqueous barrier.	4	10 min.	7
9. Newer drugs in glaucoma.	4	10 min.	7
10. Cysticercosis.	4	10 min.	7

[LB 1565]

OCTOBER 2012

Sub. Code: 3108

**DIPLOMA IN OPHTHALMOLOGY (D.O) EXAMINATION
OPHTHALMOLOGY INCLUDING MICROBIOLOGY, ANATOMY,
PHYSIOLOGY AND PATHOLOGY OF THE EYE
Q.P. Code: 353108**

**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 the Pupillary reaction and its pathway.	16	35	15
2. Discuss the anatomy of uveal tract along with its development.	16	35	15

II. Write notes on:

1. Binocular vision	4	10	7
2. Describe the metabolism of cornea.	4	10	7
3. What are the different tear substitutes?	4	10	7
4. Draw the diagram for blood supply to optic nerve head.	4	10	7
5. Describe a few filamentous fungi.	4	10	7
6. Describe the pathology of lacrimal gland tumors.	4	10	7
7. How does the bacteria develop resistance to antibiotics?	4	10	7
8. Describe the life cycle of Echinococcus granulosa	4	10	7
9. Kaposi Sarcoma	4	10	7
10. Imidazoles	4	10	7

(LC 1565)

APRIL 2013

Sub. Code: 3108

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY, ANATOMY,
PHYSIOLOGY AND PATHOLOGY OF THE EYE**

Q.P. Code : 353108

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss in detail the anatomy and development of ciliary body. Describe the theories of accommodation.
2. Describe in detail the anatomy and blood supply of visual pathway.

II. Write notes on:

(10X7=70)

1. Corneal transparency
2. Colour blindness
3. Anti-fungal drugs used in keratomycosis
4. Corneal graft rejection
5. Blood retinal barrier
6. Cysticercus
7. Binocular single vision
8. Cycloplegic drugs
9. Histopathology of retinoblastoma
10. Herpes zoster virus

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**APPLIED BASIC SCIENCES IN RELATION TO OPHTHALMOLOGY
INCLUDING MICROBIOLOGY, ANATOMY, PHYSIOLOGY AND
PATHOLOGY OF THE EYE**

Q.P. Code : 353108

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss in detail the anatomy of the third cranial nerve. Add a note on localization of the level of lesion.
2. Discuss the formation and circulation of aqueous humour. Add a note on maintenance of intraocular pressure.

II. Write notes on:

(10X7=70)

1. The components of Tear film and their importance in eye. Add a note on the management of Dry eye.
2. Discuss about Autosomal recessive inheritance and enumerate ophthalmic problems with such inheritance.
3. Enumerate Anti-Fungal Drugs, their dosage and side effects.
4. Discuss the Theories of Accommodation.
5. Histopathology of Malignant Melanoma and its importance in prognosis.
6. Discuss about Amsler's Grid. Where is it used?
7. Discuss the pathophysiology of Iridocyclitis.
8. Write about Electroretinogram and how it is useful.
9. Anatomy of Levator Palpebrae Superioris, its nerve supply and functions.
10. Discuss about Gonococcus. Add a note on the ocular lesions caused by it.

(LE 1565)

APRIL 2014

Sub. Code:3108

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**OPHTHALMOLOGY INCLUDING MICROBIOLOGY, ANATOMY,
PHYSIOLOGY AND PATHOLOGY OF THE EYE**

Q.P.Code: 353108

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Describe the anatomy of the crystalline lens. Discuss the biochemical changes in the lens leading to Cataract formation.
2. Describe the maintenance of Corneal Transparency.

II. Write notes on:

(10X7=70)

1. Anatomy of Retina.
2. AIDS Viruses.
3. Theories of Accommodation.
4. Microbiological Laboratory Diagnosis of Varicella Zoster Virus.
5. Steroids in Ophthalmology-Indications and Side effects.
6. Electrooculogram.
7. Rhabdomyosarcoma of the eye.
8. Vitreous Substitutes.
9. Corneal graft rejections.
10. Cysticercus.

(LF 1565)

OCTOBER 2014

Sub. Code:3108

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

**APPLIED BASIC SCIENCES IN OPHTHALMOLOGY INCLUDING
MICROBIOLOGY, ANATOMY, PHYSIOLOGY AND
PATHOLOGY OF THE EYE**

Q.P.Code: 353108

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the anatomy of the pupillary pathways including applied anatomy.
2. Describe in detail the rhodopsin cycle and the manifestations due to defects in the cycle.

II. Write notes on:

(10 x 7 = 70)

1. Microscopic anatomy of visual cortex.
2. Na-ATPase pump.
3. Anti-vascular endothelial growth factor.
4. Pharmacokinetics of sodium fluorescein and its uses in ophthalmology.
5. Histopathology of Retinoblastoma.
6. Pathology of sympathetic ophthalmitis.
7. Polymerase chain reaction.
8. Laboratory diagnosis in fungal infections.
9. Biochemistry of aqueous humor.
10. Homocystinuria.
