[LJ 0816] AUGUST 2016 **Sub. Code: 1537**

DIPLOMA IN OPTOMETRY TECHNOLOGY
SECOND YEAR
PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. Clinical features and management of primary open angle glaucoma.
2. Explain the procedure for testing distance visual acuity. Name the different charts used for testing distance and near visual acuity.
3. Explain in detail about the different types of refractive surgeries.

II. Write notes on: **(10 x 5 = 50)**

1. Write about Maddox wing.
2. Write about retinoblastoma.
3. Name the components of slit lamp, and explain the optics.
4. Principle and optics of Direct Ophthalmoscope.
5. Explain the stages of hypertensive retinopathy.
6. Write about Retinitis pigmentosa.
7. Explain about Vitreous opacities.
8. Write short notes on accommodative esotropia.
9. What is retinoscopy? Give short notes on streak retinoscopy.
10. Write about optic atrophy.

III. Short answers on: **(10 x 2 = 20)**

1. What is Yag peripheral iridotomy.
2. What is retinal detachment?
3. Define ophthalmic neonatorum.
4. What is Tonometer?
5. What are the Symptoms and signs of iritis?
6. Papilloedema.
7. What is Prism bar?
8. What are the factors affecting Intra ocular pressure?
9. B-scan.
10. What is IPD and Name the instrument used to measure IPD?

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[LK 0217] FEBRUARY 2017 **Sub. Code: 1537**

DIPLOMA IN OPTOMETRY TECHNOLOGY

SECOND YEAR

PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. Write in detail about Incomitant squint.
2. Congenital optic nerve anomolies and its treatment.
3. Describe perimeter, types of perimeter and various types of field defects in glaucoma.

II. Write notes on: **(10 x 5 = 50)**

1. What is dry eye? How it is evaluated?
2. Write about Amsler's grid procedure and its interpretation.
3. Description of trial set and its accessories. Give their uses.
4. Write about chronic closed angle glaucoma.
5. What is dacryocystitis? Clinical features and its treatment.
6. Give notes on optical coherence tomography.
7. Write short notes on exotropia.
8. Explain about automated lensometer.
9. Describe direct gonioscopy.
10. Short notes on endophthalmitis.

III. Short answers on: **(10 x 2 = 20)**

1. Uses of pinhole.
2. What is pachymetry?
3. Buphthalmos.
4. IOL power calculation.
5. What is Maddox rod and give its use?
6. Principle of retinoscope.
7. Herpes zoster ophthalmicus.
8. Choroidal coloboma.
9. What are drusens?
10. Retinal artery occlusion.

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[LL 0817] AUGUST 2017 **Sub. Code: 1537**

DIPLOMA IN OPTOMETRY TECHNOLOGY

SECOND YEAR

PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. Definition of ptosis, classification, clinical features, investigation and management of ptosis.
2. Explain in detail about the different types of refractive surgeries.
3. Describe in detail about any five methods of slit lamp illumination techniques.

II. Write notes on: **(10 x 5 = 50)**

1. Write about Maddox Wing.
2. Write about Retinitis Pigmentosa.
3. Write about Optic atrophy.
4. Spring Catarrah.
5. Vitamin – A deficiency.
6. Principle of Auto refractometer and its uses.
7. Lens induced glaucoma.
8. Corneal Topography.
9. Non-contact tonometer.
10. Explain the scotopic pupil diameter? Give its clinical significance.

III. Short answers on: **(10 x 2 = 20)**

1. Enucleation.
2. Ophthalmia neonatorum.
3. Uses of Prism bar.
4. Bjerrum's screen.
5. Photo ophthalmia.
6. Break – up time.
7. Iris bombe.
8. Three causes of sudden loss of vision.
9. ETDRS chart.
10. Placido's disc.

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[LM 0218] FEBRUARY 2018 **Sub. Code: 1537**

DIPLOMA IN OPTOMETRY TECHNOLOGY

SECOND YEAR

PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. Classify cataract. Write investigation and Management of Senile cataract.
2. Explain the procedure for testing distance visual acuity. Name the different charts used for testing distance and near visual acuity.
3. Explain in detail the pre operative assessment of Lasik surgery.

II. Write notes on: **(10 x 5 = 50)**

1. Name the components of slit lamp, and explain the optics.
2. Write short notes on Accommodative esotropia.
3. Diabetic retinopathy.
4. Bjerrum's Screen.
5. Description of trial set and its accessories. Give their uses.
6. Automated lensometer.
7. Entropion.
8. Hypertensive retinopathy.
9. Provocative tests for angle closure glaucoma.
10. Explain in detail the indications and contraindications of lasik refractive surgery.

III. Short answers on: **(10 x 2 = 20)**

1. Corneal opacities.
2. Types of gonioscopes.
3. Name the surgical instruments used for trabeculectomy.
4. Hypopyon.
5. Principle of keratometry.
6. Amblyopia.
7. Indentation tonometers.
8. Uses of concave mirror retinoscopy.
9. Phacolytic glaucoma.
10. Corneal foreign body.

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[LN 0818] AUGUST 2018 **Sub. Code: 1537**

DIPLOMA IN OPTOMETRY TECHNOLOGY

SECOND YEAR

PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. Classify cataract. Preoperative workup in cataract surgery.
2. Name and elaborate different refractive surgeries.
3. What are the methods of testing vision in children?

II. Write notes on: **(10 x 5 = 50)**

1. Diabetic retinopathy.
2. Automated lensometer.
3. Ptosis.
4. Provocative tests for angle closure glaucoma.
5. Explain DALK.
6. Retinal detachment.
7. Accessories of trial set.
8. Central retinal vein occlusion.
9. Hess screen.
10. Accommodative esotropia.

III. Short answers on: **(10 x 2 = 20)**

1. Anterior staphyloma.
2. Instruments used in glaucoma surgeries.
3. 2 fundus findings in Hypertensive retinopathy.
4. Ectropion.
5. Hypopyon.
6. Water drinking test in glaucoma.
7. Findings in herpes keratitis.
8. Name types of diplopia.
9. Uses of plane mirror retinoscopy.
10. Schiotz tonometer.

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[LO 0219] FEBRUARY 2019 **Sub. Code: 1537**

DIPLOMA IN OPTOMETRY TECHNOLOGY

SECOND YEAR

PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. Management of various types of corneal ulcer.
2. LASIK surgery and its complications.
3. Keratoconus and its investigations.

II. Write notes on: **(10 x 5 = 50)**

1. Use of red green goggles in diplopia.
2. Automated perimeter.
3. Entropion.
4. Retinoscopy.
5. Tonography.
6. Exotropia.
7. Keratometer.
8. Slit lamp, Components of optics.
9. Hypertensive retinopathy.
10. Ophthalmia neonatorum.

III. Short answers on: **(10 x 2 = 20)**

1. Types of corneal opacities.
2. Two fundus findings in papilloedema.
3. Two optic nerve function tests.
4. Uses of pachymeter.
5. Phacolytic glaucoma.
6. Hypopyon.
7. Amblyopia.
8. Types of keratoplasty.
9. Types of retinal detachment.
10. Keratic precipitates.

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[LP 0819] AUGUST 2019 **Sub. Code: 1537**

DIPLOMA IN OPTOMETRY TECHNOLOGY

SECOND YEAR

PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. Classify Primary Glaucoma. Elaborate clinical features, signs, symptoms, Management of Primary Open Angle Glaucoma (POAG).
2. Explain visual acuity and measurement of visual acuity in children.
3. Classify refractive surgeries, detail on preoperative preparation for refractive surgeries.

II. Write notes on: **(10 x 5 = 50)**

1. Congenital cataract and management.
2. Optical Coherence Tomography (OCT).
3. Ciliary body and its functions.
4. Keratoconus and its investigations.
5. Amblyopia types and management.
6. Lensometer, principle and application.
7. Applanation tonometry, principle and its uses.
8. Night blindness and treatment.
9. Hyphema and management.
10. Accomodative esotropia.

III. Short answers on: **(10 x 2 = 20)**

1. Type of ophthalmoscopy and uses.
2. Phacomorphic glaucoma.
3. Two provocative tests for angle closure glaucoma.
4. Classification of diabetic retinopathy.
5. Clinical findings of fungal corneal ulcer.
6. Lagophthalmos cause and management.
7. Hirschberg test.
8. Stenopic slit.
9. Four uses of prism.
10. Microtropia.

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[LQ 0220] FEBRUARY 2020 **Sub. Code: 1537**

DIPLOMA IN OPTOMETRY TECHNOLOGY

SECOND YEAR

PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. Classify cataract, write clinical features, management of senile immature cataract.
2. Classify glaucoma and elaborate the features of congenital glaucoma.
3. Classify strasbismus and elaborate on esotropia.

II. Write notes on: **(10 x 5 = 50)**

1. Write note on retinoblastoma.
2. Lateral rectus palsy.
3. Exposure keratitis.
4. Classification of hypertensive retinopathy.
5. Stages of diabetic retinopathy and features.
6. Fundus flouresin angiogram.
7. Autorefractometer.
8. Maddox wing and applications.
9. Binoculor single vision.
10. Ducochrome test.

III. Short answers on: **(10 x 2 = 20)**

1. Direct ophthalmoscope and uses.
2. Neovascular glaucoma – two causes.
3. Optic nerve head findings of Primary Open Angle Glaucoma (POAG).
4. Types of perimetry.
5. Keratometry.
6. Prisms in refraction.
7. AC/A Ratio.
8. Presbyopia.
9. Diplopia, types and causes.
10. Sympathetic ophthalmoplegia.

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

[LR 1220] DECEMBER 2020 Sub. Code: 1537

(AUGUST 2020 EXAM SESSION)

DIPLOMA IN OPTOMETRY TECHNOLOGY

SECOND YEAR – (Regulation from 2014 -2015 & 2018-2019)

PAPER II – OCULAR DISEASES II, OPTICAL INSTRUMENTS, OP INVESTIGATIONS & REFRACTIVE SURGERIES

Q.P. Code: 841537

Time : Three Hours Answer All Questions Maximum : 100 Marks

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I. Elaborate on: (3 x 10 = 30)

1. Write in detail about Glaucoma.
2. Write in detail about various Visual Acuity charts.
3. Write in detail about principle and procedure of Manual Lensometer.

II. Write notes on: (10 x 5 = 50)

1. Anterior Uveitis.
2. Esotropia.
3. Retinal detachment.
4. Optic Neuritis.
5. Leucocoria.
6. Direct Ophthalmoscope.
7. Autorefractometer.
8. Slit Lamp Biomicroscope.
9. Prism bar.
10. FFA.

III. Short answers on: (10 x 2 = 20)

1. Endophthalmitis.
2. Vitrectomy.
3. SMILE.
4. ARVO.
5. Types of Phoria.
6. Amsler chart.
7. Tunnel vision.
8. Drusen.
9. Extending the range of a Keratometer.
10. Coloboma.

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