

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

[AHS 0122]

**JANUARY 2022**

**Sub. Code: 2754**

**(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)**

**B.OPTOM**

**THIRD YEAR (Regulation 2018-2019)**

**PAPER IV - PAEDIATRIC OPTOMETRY AND GERIATRIC OPTOMETRY**

***Q.P. Code : 802754***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Discuss morphological classification of acquired cataract. Discuss preoperative evaluation and management.
2. Discuss methods of vision testing in children according to age group.
3. Write the requisites for binocular single vision. What are the components of binocular vision. Explain Worth4-dot test.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write the principle, types and uses of keratometer.
2. Problems of aphakia.
3. Hirschberg test.
4. Classify hypertensive retinopathy.
5. Age related Macular degeneration.
6. Define low vision. Classify the grades.
7. Causes of diplopia.
8. Accommodative esotropia.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define Leucocoria. Write two causes.
2. Ectopia lentis.
3. Retinitis pigmentosa.
4. Pinhole test.
5. What is pseudophakia.
6. Write two causes for congenital cataract.
7. Post mydriatic test.
8. Pachymetry.
9. Types of amblyopia.
10. Types of retinal detachment.

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 2754

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

**B.OPTOM**

**THIRD YEAR (Regulation from 2018-2019)**

**PAPER IV - PAEDIATRIC OPTOMETRY AND GERIATRIC OPTOMETRY**

*Q.P. Code : 802754*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write about Retinitis pigmentosa, types and rehabilitation for this condition.
2. Write about Ambylopia - signs, symptoms and treatment.
3. Write about Hypertensive Retinopathy, clinical features, stages and treatment.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Visual pathway lesions.
2. Primary open angle glaucoma and its management.
3. Fundus Fluorescein Angiogram.
4. Congenital Ptosis.
5. Vitamin A deficiency.
6. Types of keratoplasty.
7. Nystagmus-types, signs and symptoms.
8. Astigmatism -Types and treatment.

**III. Short answers on:**

**(10 x 3 = 30)**

1. TORCH Infections.
2. Three differential diagnosis for Leukocoria.
3. Titmus fly tests.
4. Pseudomyopia.
5. Photodynamic therapy.
6. Define Accommodation.
7. Bagolini striate glasses and its uses.
8. Pellucid Marginal degeneration.
9. Optic Neuritis-Types.
10. Mires appearance in Goldmann Applanation tonometer.

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

[AHS 0423]

APRIL 2023

Sub. Code: 2754

**B.OPTOM**

**THIRD YEAR (Regulation 2018-2019 onwards)**

**PAPER IV - PAEDIATRIC OPTOMETRY AND GERIATRIC OPTOMETRY**

*Q.P. Code: 802754*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define Hypermetropia. Discuss the components, symptoms and management of Hypermetropia.
2. Write the clinical features and management of Open Angle Glaucoma.
3. Define Amblyopia. Write the different types and management of Amblyopia.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Tests for binocular single vision.
2. ETDRS classification of Diabetic Retinopathy.
3. Management of Esotropia.
4. Cover and uncover tests and their uses.
5. Write five causes for gradual loss of vision in adults.
6. Investigations for a case of cataract.
7. Write about Presbyopia.
8. Worth 4 – dot test.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Anisometropia types.
2. Write two causes for Proptosis.
3. What is Fogging?
4. What is albinism?
5. Tests for colour vision.
6. Causes for Vitreous Haemorrhage.
7. Sherrington's Law.
8. Maddox Rod test.
9. What is corneal topography?
10. What is Schirmer's test?

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2754

**B.OPTOM**

**THIRD YEAR (Regulation 2018-2019 onwards)**

**PAPER IV - PAEDIATRIC OPTOMETRY AND GERIATRIC OPTOMETRY**

*Q.P. Code: 802754*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

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

1. Assessment of Visual Acuity in Infants.
2. Retinoscopy – Principle and Stages.
3. Age Related Macular Degeneration – Investigations and Management.

**II. Write notes on:** (8 x 5 = 40)

1. Senile ptosis.
2. Non Arteritic anterior ischemic optic neuropathy.
3. Central Retinal vein occlusion.
4. Optic atrophy causes and evaluation.
5. Hypertensive retinopathy.
6. Vitamin A deficiency.
7. Retinal changes in myopia.
8. Humphreys field analyzer.

**III. Short answers on:** (10 x 3 = 30)

1. Three causes of vision loss in children.
2. Vision assessment in preschool children.
3. Amsler grid.
4. Strabismic amblyopia.
5. Night blindness.
6. Central retinal artery occlusion-causes.
7. Occlusion therapy.
8. Red-glass test.
9. Congenital ectropion.
10. Toxoplasmosis.

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

**[AHS 0424]**

**APRIL 2024**

**Sub. Code: 2754**

**B.OPTOM**

**THIRD YEAR (Regulation 2018-2019 onwards)**

**PAPER IV - PAEDIATRIC OPTOMETRY AND GERIATRIC OPTOMETRY**

***Q.P. Code: 802754***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define Astigmatism. Classify the different types. Discuss the symptoms and management.
2. Clinical features and management of Congenital Cataract.
3. Describe Ageing changes in the Eye.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain the Duochrome test and its uses.
2. Accommodation and Presbyopia.
3. Classify Ptosis.
4. Keratoconus.
5. Field changes in Glaucoma.
6. Causes for sudden loss of vision.
7. Congenital Dacryocystitis.
8. Types of Intra Ocular Lens.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Posterior Capsular Opacification.
2. Write two causes for complicated cataract.
3. Uses of Prisms.
4. Arcus senilis.
5. Fundus Fluorescein Angiography.
6. What is Amsler grid?
7. What is phacolytic glaucoma?
8. Maddox wing.
9. Grades of binocular single vision.
10. Occlusion therapy.

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

[AHS 0125]

**JANUARY 2025**

**Sub. Code: 2754**

**B. OPTOM**

**THIRD YEAR (Regulation 2018-2019 onwards)**

**PAPER IV - PAEDIATRIC OPTOMETRY AND GERIATRIC OPTOMETRY**

*Q.P. Code: 802754*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Vascular disease of the eye.
2. Write in detail about Diabetic Retinopathy, its types and treatment.
3. Paediatric Cataract – Classification and Management.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Ocular developmental milestones.
2. Anti-glaucoma drugs.
3. Congenital glaucoma- Clinical features and Treatment.
4. Chemical injuries- Types and Clinical Management.
5. Congenital abnormalities of lids.
6. Retinopathy of prematurity and its treatment.
7. Entropion and treatment.
8. Albinism.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Normal retinal correspondence.
2. Congenital Horner's Syndrome.
3. Menace reflex.
4. Hering law with example.
5. Expand APGAR score.
6. City University test.
7. Differential Diagnosis for sudden loss of vision.
8. Lagophthalmos.
9. Anisocoria.
10. Retinoblastoma.

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

**[AHS 0425]**

**APRIL 2025**

**Sub. Code: 2754**

**B. OPTOM**

**THIRD YEAR (Regulation 2018-2019 onwards)**

**PAPER IV - PAEDIATRIC OPTOMETRY AND GERIATRIC OPTOMETRY**

***Q.P. Code: 802754***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write about Age Related Macular Degeneration (ARMD) types and treatment.
2. Explain about Visual acuity assessment in preschool children.
3. Define Congenital Glaucoma and explain types and Medical treatment.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Ophthalmia neonatorum.
2. Anisometropia types and treatment.
3. CRVO signs symptoms and management and complications.
4. Fuch's endothelial dystrophy.
5. Vision losses in geriatric population.
6. Jones dye test.
7. Grades of Binocular vision.
8. Optical coherence tomography.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Visual evoked potential.
2. Efferent pathway.
3. What is Descemet's Stripping Endothelial Keratoplasty (DSEK)?
4. Uses of fluorescein dye.
5. Dacryocystectomy (DCT).
6. Neovascular Glaucoma.
7. Horner's syndrome.
8. Gonioscopy types.
9. Maddox rod test.
10. Menace reflex.

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

[AHS 1125]

**NOVEMBER 2025**

**Sub. Code: 2754**

**B. OPTOM**

**THIRD YEAR (Regulation 2018-2019 onwards)**

**PAPER IV - PAEDIATRIC OPTOMETRY AND GERIATRIC OPTOMETRY**

*Q.P. Code: 802754*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Assessment of Visual Acuity in Preschool Children.
2. Ocular Trauma- Investigations and Management.
3. Common Eye diseases among the Elderly population.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Management of infantile esotropia.
2. Duane's syndrome.
3. Amblyopia - Types.
4. Low vision aids in children.
5. Color vision screening in Children.
6. Diabetic Retinopathy- Management.
7. Referral guidelines in patients with retinal conditions.
8. Visual field defects in Glaucoma.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Uses of photodynamic therapy.
2. Three uses of lasers in Ophthalmology.
3. Indications for Fundus Fluorescein Angiography.
4. Three causes of white reflex in Children.
5. Types of Retinal Detachment.
6. School screening Protocols for Refractive error.
7. Use of Atropine in myopia management.
8. Frame selection in Children.
9. Supplements used in Age Related Macular Degeneration (ARMD).
10. Three causes of sudden loss of vision among elderly patients.

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