

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

[AHS 0321]

**MARCH 2021
(OCTOBER 2020 EXAM SESSION)**

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2018-2019 onwards)
PAPER IV – VISION THERAPY
Q.P. Code : 281634**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. A one-year-old child is brought with constant inward deviation noticed in the past 6 months. Explain the clinical assessment, and management strategies.
2. A 50-year-old adult with a longstanding history of Diabetes Mellitus complains of sudden onset of horizontal binocular diplopia since morning. Explain the clinical assessment, and management strategies.

II. Write Short Notes on:

(10x6 = 60)

1. Prism prescription – Indications, and methods to calculate the prisms.
2. Assessment and management of diplopia.
3. Testing for saccades and pursuits.
4. Computer vision syndrome – symptoms and testing.
5. Grades of Binocular vision and testing.
6. Brown's syndrome.
7. Visual consequences of traumatic brain injury.
8. Management options for amblyopia including vision therapy tools.
9. Sequential management approach in convergence insufficiency.
10. Clinical features, testing, classification, and management of Intermittent divergent squint.

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

[AHS 0921]

**SEPTEMBER 2021
(MAY 2021 EXAM SESSION)**

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2018-2019 onwards)
PAPER IV – VISION THERAPY
*Q.P. Code : 281634***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Types of Amblyopia and Role of vision therapy in treatment of Amblyopia.
2. Role of vision therapy in special clinical conditions (Any two as examples).

II. Write Short Notes on:

(10x6 = 60)

1. AC/A Ratio and effects on vergence.
2. Convergence insufficiency and its management.
3. Vertical Deviations.
4. Anomalous Correspondence.
5. Duane's lid Retraction syndrome.
6. Stereopsis, clinical testing & normal ranges.
7. Inter-sensory integration with visual systems.
8. Pursuit and saccadic dysfunctions.
9. Fixation disparity.
10. Developmental disabilities with reference to down syndrome.

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

[AHS 0122]

**JANUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2018-2019 onwards)
PAPER IV – VISION THERAPY
*Q.P. Code : 281634***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. A 5 year old child is brought with intermittent inward deviation noticed since 1 year. Explain the clinical assessment, and management strategies.
2. Nystagmus Types and features, write about the evaluation and management.

II. Write Short Notes on:

(10x6 = 60)

1. Vision therapy for Computer Vision syndrome.
2. Role of accommodation in computer related Asthenopia.
3. Vision therapy management for Down Syndrome
4. Explain saccadic dysfunctions and its management
5. Explain ocular motor function in eye movements and reading
6. Test for motor functions
7. Vision therapy for Cerebral palsy
8. Visual consequences in Traumatic brain injury
9. Explain Accommodative Esotropia and its management
10. Explain visual-tactual in intesensory and sensory motor integration

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

[AHS 1022]

OCTOBER 2022

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2018-2019 & 2020-2021 onwards)
PAPER IV – VISION THERAPY**

Q.P. Code : 281634

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Discuss on the types of Amblyopia. Elaborate on the tests to diagnose and sequential management. Also mention the various treatment studies followed for Amblyopia.
2. Explain the options of peripheral awareness with development, prevention and rehabilitation protocols.

II. Write Short Notes on:

(10x6 = 60)

1. Explain the different phases of vision therapy for patients with convergence insufficiency.
2. Explain the different types of intermittent divergent squint and discuss the PEDIG IXT and New castle score.
3. Discuss the types and clinical features of Duane's syndrome.
4. Discuss the clinical features of Infantile Esotropia.
5. Explain the impact of colored filters in rehabilitation.
6. Explain fixation disparity and discuss the types of curve.
7. Discuss the different types of anomalous retinal correspondence with examples.
8. Role of vision therapy in motor disabilities.
9. Discuss on types of saccadic dysfunctions and management.
10. A 25-year-old male came with a complaint of sudden onset of vertical diplopia for both distance and near. He gave a history of mild head injury hit against the door. On examination his BCVA was 6/6: N6 in both the eyes. Cover test showed R/L for distance and near and patient adopts left head tilt on observation. He also complaints of diplopia increasing with left face turn.
 - a. What are the further tests to be documented?
 - b. Diagnosis and Tentative diagnosis of this case.

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

[AHS 0523]

MAY 2023

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2020-2021 onwards)
PAPER IV – VISION THERAPY**

Q.P. Code: 281634

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Types of oculomotor dysfunction. Mention tests to diagnosis and elaborate on sequential management.
2. Discuss on the types of developmental and motor disabilities with its management.

II. Write Short Notes on:

(10x6 = 60)

1. List and explain on non-comitant deviations.
2. Discuss on Visually induced balance disorders and the relationship between the visual and vestibular systems.
3. Explain the types of rehabilitative therapies of peripheral awareness.
4. Tests for visual processing disorders.
5. What is visual perceptual midline? Mention the tests and management.
6. List the options for myopia control.
7. Role of vision therapy in amblyopia.
8. Discuss the clinical features and sequential management of accommodative esotropia.
9. Explain the different techniques of vision therapy for convergence training.
10. A 6 year old girl was referred with a complaint of intermittent outward deviation. The visual acuity was 6/6 in both the eyes. Alternate cover test revealed intermittent divergent squint with slow recovery with the angle of deviation measuring 35 Prism diopter at distance and 10 prism diopter at near. Following a patch test, she measured 35 PD at distance and 15 PD at near.
 - a. What are the further tests to be documented?
 - b. Diagnosis and Tentative diagnosis of this case.

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2020–2021 onwards)
PAPER IV – VISION THERAPY**

Q.P. Code: 281634

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Discuss the following developmental disabilities in detail:
 - a. Down's syndrome.
 - b. Autism spectrum disorders.
 - c. Attention Deficit Hyperactivity Disorder (ADHD).
2. Explain the different types of Exotropia, signs, differential diagnosis and sequential management of each type.

II. Write Short Notes on:

(10x6 = 60)

1. Role of coloured Overlays and filters as a rehabilitation measure.
2. What are the different phases of vision therapy for patients with Oculomotor dysfunction?
3. Discuss the pathophysiology of different forms of Acquired brain Injury.
4. What is behavioural Optometry and discuss the concepts of behavioural lenses and prisms.
5. Discuss in detail about the following test:
 - a. Diplopia Charting.
 - b. Hess Charting.
 - c. Forced duction tests.
6. Discuss the relationship between speech and auditory to vision.
7. Discuss the role of accommodation in computer related asthenopia.
8. What is monofixation syndrome or Microtropia? List the tests to diagnose the condition.
9. What is Disruptive therapy and discuss the types of therapy.
10. What are the different methods for the measurement of Eccentric fixation and suppression? Explain in detail.

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

[AHS 1024]

OCTOBER 2024

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2020–2021 onwards)
PAPER IV – VISION THERAPY**

Q.P. Code: 281634

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2x20=40)

1. Explain the different types of Esotropia, signs, differential diagnosis and sequential management of each type.
2. What is Computer vision syndrome? List the symptoms, Etiology and discuss the preventive measure and treatment in detail.

II. Write Short Notes on:

(10x6=60)

1. Discuss the sequential management of Amblyopia suggested by Amblyopia Treatment Study (ATS).
2. Discuss the clinical features of congenital superior oblique palsy, differential diagnosis and management.
3. Discuss the following motor disabilities.
 - a. Cerebral Palsy
 - b. Ataxia
4. Role of Yoke prisms in the treatment and rehabilitation of peripheral awareness.
5. Calculate the following;
 - a) PBCT showed 10 PD of Exophoria for distance and 2 PD esophoria for near, working distance is 40 cm and the IPD is 72 mm. Calculate the AC/A ratio.
 - b) Find the near phoria at 40 cm, when calculated AC/A ratio is 4.4:1 and distance phoria is 4 exophoria with IPD 60 mm.
 - c) PBCT showed 45 PD Exotropia with -3.00DS 10PD Esotropia. Calculate the AC/A ratio.
6. What is the indication of Parks 3 step? Discuss in detail about each step with example.
7. What is fixation disparity? Explain in detail about each curve.
8. Discuss the clinical characteristics and etiology of 6th cranial nerve palsy.
9. What is post-concussion syndrome? Discuss the signs and symptoms.
10. Explain the pathophysiology of Duane's retraction syndrome.

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

[AHS 0525]

MAY 2025

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2020–2021 onwards)
PAPER IV – VISION THERAPY**

Q.P. Code: 281634

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. A one-year-old child brought with constant inward deviation noticed in past 6 months. Explain the clinical assessment and management.
2. Write in detail about amblyopia and management options available.

II. Write Short Notes on:

(10x6 = 60)

1. Bilateral integration.
2. Accommodative insufficiency.
3. Anomalous retinal correspondence.
4. Brown syndrome.
5. Fourth nerve palsy.
6. Computer vision syndrome.
7. Tests for diplopia.
8. Nystagmus.
9. Aperture rule.
10. Red red rock.

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

[AHS 1025]

OCTOBER 2025

Sub. Code: 1634

**M.OPTOM
SECOND YEAR (From 2020–2021 onwards)
PAPER IV – VISION THERAPY**

Q.P. Code: 281634

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Explain in detail about the various strategies for the control of Myopia progression.
2. What is feedback mechanism in vision therapy? Discuss in detail about the different feedback mechanism.

II. Write Short Notes on:

(10x6 = 60)

1. Discuss the types of anomalous retinal correspondence and tests to diagnose the condition.
2. Explain the different phases of vision therapy for patients with Fusional vergence dysfunction.
3. List the types of intermittent exotropia by Burian and discuss the new castle control score of distance and near deviation.
4. Discuss the clinical features of brown's syndrome, differential diagnosis and management.
5. Explain the Magno cellular and Parvo cellular pathway and function.
6. Explain in detail about the different tests for the diagnosis of oculomotor dysfunction.
7. What is visual stress and its impact on visual system?
8. Explain in detail about the pathophysiology, signs and treatment of pupil involving 3rd Nerve palsy.
9. Discuss in detail about the learning disabilities and dyslexia.
10. Explain in detail about the signs, etiology and management of Dissociated Vertical Deviation (DVD).
