

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. Optometry Degree Examination – 15-May-2026

Time: Three Hours

Max. Marks: 100

**PAEDIATRIC OPTOMETRY, BINOCULAR VISION AND
ADVANCED OPTOMETRY (RS-4)**

Q.P. CODE: 3358

(QP Contains two pages)

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Second Question Choice)

2 x 10 = 20 Marks

1. What is Nystagmus? Write its classification, diagnosis and management
2. Write about the classification of esodeviation. Write in detail about the aetiology, clinical characteristics and management of refractive accommodative ET.

OR

A 10y/M came with a complaint of double vision for near since 10 days. His BCVA is 6/6 and N6 for distance and near respectively with plano in OU. His binocular vision assessment showed normal sensory and motor skills with near point of convergence: break at 20cm and receding, NRA: +1.00DS, PRA:-2.50DS, reduced PFV and normal NFV, fails vergence facility Base out

- a) What is the diagnosis?
- b) How to manage this condition?
- c) Will the accommodation facility be affected in this case? If yes or no, explain the reason
- d) What will be the AC/A ratio of the patient with near phoria: 6prism BO and increasing to 10 prism BO with - 1.00DS (Gradient method)?

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. What are the tests to assess accommodation? Explain any two in brief
4. Write in detail about the management options available for amblyopia in clinical practice
5. What are the clinical characteristics and special test to be done among the patients with exodeviation?

OR

What is the Park 3 step? A patient had Right hypertropia which increased in left gaze and left head tilt. Find the muscle paralyzed

6. What are the ocular findings present in congenital fibrosis of extraocular muscles? What are the clinical examinations done among these patients?
7. What is ARC? Explain any two tests to diagnose ARC
8. What are the non-surgical management for vergence anomalies? Explain any one
9. What is eccentric fixation? How to manage it?
10. Write in detail about the various charts available to assess preschool children

OR

Write a short note on:

- a) Maddox rod test
- b) Worth four dot test
11. Action of extra ocular muscle
12. Write about the clinical evaluation to be done for differentiating congenital ptosis from other types of ptosis

SHORT ANSWER

10 x 3 = 30 Marks

13. What are the clinical features of NLDO? Explain Crigler's massage
14. Define normal retinal correspondence. What are the clinical tests performed to test retinal correspondence?
15. What is microtropia? How to rule out microtropia?

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16. Explain Negative and Positive fusional vergence
17. What do we mean by pseudomyopia? List down the management options
18. How does type of deviation vary based on the state of vergence system?
19. Nerve supply of extraocular muscles
20. What are the factors to be considered while prescribing spectacle to a six months old child with bilateral aphakia?
21. What is accommodative infacility? What are the clinical features?
22. What is Horopter? Explain Empirical and geometric Horopter
