

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. Optometry Degree Examination – 05-Jun-2025

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. Explain in detail about the clinical examination procedures and the sequence of testing for a child of 3 years old coming for a routine eye examination with a family history of myopia for both parents
2. A five-year-old boy presented to the clinic for a routine eye examination. The patient presented with an ocular history of gradual onset of esodeviation from the age of 3 years and wearing glasses since then. The patient has been wearing hypermetropic glasses with an Rx of OU: +7.00DS. The boy has esotropia of 40 prism dioptres for near and distance without glasses and fully corrected esotropia with his glasses. The patient has visual acuity of 6/6, N6 with correction in OU
 - a) What further clinical evaluation would you like to perform for the patient?
 - b) What are your differential diagnosis and final diagnosis based on the clinical features given above? Justify your answer with a management plan for the patient
 - c) Write the classification of esodeviation

OR

What is Accommodation? List the tests to assess accommodation. Explain the signs of any 3 anomalies of accommodation

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. What are the types of convergence? Explain convergence insufficiency
4. Write about the types of functional amblyopia and the visual functions affected in these types of amblyopia
5. What are the sensory adaptations observed in exodeviations?

OR

What is A-pattern esodeviation? Write the clinical features of A-V pattern strabismus

6. What are the clinical manifestations of Duane's retraction syndrome? Explain
7. What is monofixation syndrome. Explain any 2 tests to rule out the same
8. List down the non-surgical management for divergence insufficiency. Explain any 1
9. Explain the following
 - a) Prism Bar Cover test
 - b) After image test
10. What do you understand by the process of emmetropisation? Explain the prerequisites for the same

OR

What are the types of suppression? Explain any 2 tests to rule out suppression

11. Explain the pediatric contact lens work up under the following: contact lens materials, pre-fitting examination and dispensing
12. What are the types of Nystagmus? Explain any 2

SHORT ANSWER

10 x 3 = 30 Marks

13. What are the types of epicanthus folds seen in pediatric practice?
14. What is strabismus fixus?
15. Y pattern deviation

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16. Vergence facility. What does difficulty with Base in prism signify?
17. What is null point in nystagmus?
18. Sherrington's law
19. What are the factors that can influence the type and magnitude of deviation?
20. Name the clinical conditions where a larger corneal diameter is observed
21. What are the types of accommodation? Explain any one
22. Define Fusion. What are the two types of fusion, explain

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