Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Optometry Degree Examination - 08-May-2025

Time: Three Hours   **Max. Marks: 100**

VISUAL OPTICS (RS-4)
Q.P. CODE: 3347
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 accommodation? Explain NPA, range of accommodation and amplitude of accommodation with example. Write a short note measurement of NPA

2. Define convergence. Write a short note on types of convergence. Write a short answer on measurement of NPA

   OR

   Define and classify astigmatism. Mention clinical features and treatment option available for astigmatism

SHORT ESSAYS (Question No 5 & 10 choice)   **10 x 5 = 50 Marks**

3. Write on etiology, clinical feature and treatment of convergence insufficiency

4. Name different types of dynamic retinoscopy. Explain MEM

5. List different method of measurement of AC/A ratio. Explain any one with example

   OR

   Characteristics of retinoscopic reflex

6. Write in details about sign convention

7. Define different kind of aberration and mention its application

8. Write a note on theories of color vision

9. Write the classification of astigmatism based on principal meridian

10. Write a note on cornea is an optical element of eye

    OR

    Mention etiology, clinical feature and treatment of hypermetropia

11. Write about different methods of presbyopic correction

12. Name the test / chart available for pediatric visual acuity assessment as per different age group

SHORT ANSWER   **10 x 3 = 30 Marks**

13. Mention the significance of padical retinoscopy

14. Mention the significance of convert 6/36 into LogMAR

15. Explain spherical equivalent with example

16. Mention the indication of red and green filter

17. Mention the etiology, clinical feature accommodative excess

18. Enlist the etiology of refractive anomalies

19. Enlist the chart available for measurement of contrast sensitivity

20. Mention the difference between axial and refractive ametropia

21. Explain the signs of aphakia

22. Mention the advantages and disadvantages of phoropter

*****