Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Optometry Degree Examination - 13-Nov-2025

Time: Three Hours　　　　　　　　　　　　　　　　　　　**Max. Marks: 80**

Visual Optics (RS-3)
Q.P. Code: 3112

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

LONG ESSAYS (Answer Any Three)　　　　　　　　　　**3 x 10 = 30 Marks**

1. Define accommodation and write in detail about the mechanism, amplitude, range and near and far point of accommodation
2. Describe in detail static and dynamic retinoscopy with examples
3. Define convergence and anomalies of convergence
4. Write in detail about different methods used to diagnose and correct refractive errors

SHORT ESSAYS (Answer Any Six)　　　　　　　　　　**6 x 5 = 30 Marks**

5. Brief on the myopia control methods
6. Write a short note on dynamic retinoscopy
7. Discuss the concept of emmertropization at near
8. Describe the steps involved in binocular balancing
9. Write a short note on depth of focus and depth of field
10. Describe in detail the heterophoria and gradient methods to calculate the AC/A ratio with its importance
11. Write a short note in biometry

SHORT ANSWERS　　　　　　　　　　　　　　　　　**10 x 2 = 20 Marks**

12. If an object is 33 cm from a +8.00 lens, where is the image (What distance from the lens)?
13. Astigmatic clock dial test
14. Tentative addition based in age in presbyopia
15. Mention the principle of the Snellen's chart
16. Why is retinoscopy known as objective retionoscopy?
17. What is the optimum size of the pinhole used to measure "pinhole acuity"?
18. A myope is wearing -9.0D glasses OU. She says that she sees better is she pushes her glasses closer to her eyes. Troubleshoot this case
19. Write any 2 uses of RAF
20. What is MEM retinoscopy?
21. Draw a neat and labelled diagram of the schematic eye

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