

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**II Year B.Sc. Optometry Degree Examination - 07-May-2026**

**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. Write short note on pediatric visual acuity assessment
2. Explain the components of accommodation. Explain mechanism of accommodation. Name the anomalies of accommodation

**OR**

Define and classify convergence. Write a short note on anomalies of convergence

**SHORT ESSAYS (Question No 5 & 10 choice)**

**10 x 5 = 50 Marks**

3. Define ocular refraction and spectacle refraction. Explain the relationship between these two components
4. Write in brief about assessment of contrast sensitivity
5. Mention the effect of vertex distance change in different types of refractive error

**OR**

Explain the ocular changes due to accommodation

6. What is extended keratometry? Mention the uses of keratometry
7. Trial set and its accessories
8. Cycloplegic refraction
9. Define far point, near point and range of accommodation, amplitude of accommodation and AC/A ratio
10. Write about binocular balancing

**OR**

Explain about types of hyperopia

11. Describe lenticular lenses. Write about roving ring scotoma?
12. Explain about Sturm conoid with a neat diagram

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Principle of retinoscopy
14. Briefly mention various treatment processes available for myopia?
15. Importance of Purkinje image
16. Explain Duo-chrome test
17. Explain sign convention
18. Fogging and defogging
19. Define emmetropia, ametropia and isotropia
20. Define JCC? Explain about construction of JCC??
21. Define anisometropia, anisokonia, anisocoria and antimetropia
22. Name the cardinal points of eye

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