Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Optometry Degree Examination – 18-Nov-2025

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

CEVS AND OPTOMETRIC INSTRUMENTS (RS-4)
Q.P. CODE: 3348

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 streak retinoscope? Describe the instrumentation and optics of streak retinoscope

2. What are the components of vision? How will you assess visual acuity in pre-school children?
   Or
   Explain the different procedure for assessing the lacrimal system along with their indications, contraindications, procedure and interpretations

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

3. Write the principle of Keratometer. Mention errors possible in a manual keratometry

4. Explain the optics of manual lenometer

5. Explain the components of electroretinogram
   Or
   Explain the Van Herrick grading system

6. Short note on D-15 colour vision test

7. Short note on fundus photography

8. Difference between static and dynamic retinoscopy

9. Explain 3 mirror gonioscopy. What are contraindications of gonioscopy?

10. Explain Amsler chart and its types
    Or
    Mention the color coding used for retinal abnormalities

11. What is phoropter? Mention its advantages and disadvantages

12. Explain A – scan ultrasonography

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

13. Principle of Retinoscopy

14. Hofstetter's formula for calculating the minimum, average and maximum amplitude of accommodation based on the age

15. What is the purpose of pattern deviation plot in Humphrey visual field analyzer?

16. What are the indications of visual evoked potential test?

17. Potential acuity meter and its use

18. What is the principle of optometer?

19.   a) K_1 = 42.50 x 180
       b) K_2 = 43.5 x 90
    Mention the type of astigmatism and calculate the amount of astigmatism

20. Uses of pinhole and staenopic slit

21. Accessories of a slit lamp

22. Benefits of history taking

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