Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 29-Oct-2026

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

LOW VISION AIDS AND GERIATRIC OPTOMETRY (RS-4)
Q.P. CODE: 3351

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. 10 year old school going child diagnosed with OU: Stargard's disease, On examination BCVA : OD 20/160 N14, OS 20/400 N 20, -1.00 Ds in Both eyes. Patient is complaining central blackish area, could not recognize faces and bus numbers, have difficulty in copying from the board. Parents complaining while reading child holds the reading material close. Write the signs and symptoms of the stargards disease? What are the recommended examinations and how do you manage the case?
2. Describe the Selection of low vision aids for distance and near in details

   OR

   What is diabetic retinopathy? Elaborate the aetiology, sings, symptoms and management of diabetic retinopathy

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

3. Elaborate in detail about the age-related changes in cornea
4. Write the refractive changes due to uveitis
5. Write the management strategies of peripheral field defects

   OR

   Calculate the magnification and tube length of the telescope. Objective lens and eye piece lens are + 30 and – 90 Diopters respectively

6. Write the categories of visual impairment according ICD 10^{th} revision
7. Elaborate the optics, advantages and disadvantages of spectacle magnifier
8. Elaborate the spectacle dispensing in geriatric age group
9. Why measuring contrast sensitivity important in low vision patient? Enlist the contrast sensitivity charts
10. Write the optics with ray diagram, advantages and disadvantages of Keplerian telescopes

    OR

    Write the types, signs, symptoms and management of Age-Related Macular degeneration

11. Write a note on Braille
12. Write about the design of bioptic telescope and why it used?

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

13. Mention the Kubler Ross stages of loss
14. Angular Magnification
15. What is travel vision?
16. What is EVP?
17. What is Polypharmacy?
18. Notex and signature guide
19. What is albinism? Mention its types
20. Brow ptosis
21. What is JND?
22. What is BAT?

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