

# Rajiv Gandhi University of Health Sciences, Karnataka

**III Year B.Sc. Optometry Degree Examination - 10-Nov-2025**

**Time: Three Hours**

**Max. Marks: 100 Marks**

## **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. Write the optics, ray diagram, difference of Keplerian and Galilean telescopes?
2. Enumerate common disorders leading to low vision. Write in detail about problems and management of the following :- a) Corneal Opacity b) Glaucoma

**OR**

Elaborate the spectacle and contact lens dispensing in geriatric age group?

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

**10 x 5 = 50 Marks**

3. What is CCTV? Write the advantages and disadvantages?
4. Management of senile cataract.
5. Write the guidelines and training to use telescope.

**OR**

Explain the importance of speech synthesizer and talking books.

6. The general point to remember while prescribing to child with low vision.
7. Write in detail about the different macular function test used in ARMD.
8. Write detail about glare, lighting controlling and sensory substitution devices.
9. Write refractive changes of cornea and lens in aged population.
10. List the congenital type causes of low vision.

**OR**

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

11. Write the categories of visual impairment according ICD 10<sup>th</sup> revision.
12. Write the procedure of confrontation.

### **SHORT ANSWER**

**10 x 3 = 30 Marks**

13. What are the neurological changes associated with aging.
14. Atherosclerosis.
15. Economical blindness.
16. Causes of peripheral field defects.
17. Nuclear sclerosis.
18. Management of ptosis.
19. Dome magnifier.
20. Half eye spectacle magnifier.
21. Exit pupil.
22. ROP.

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