

# Rajiv Gandhi University of Health Sciences, Karnataka

**I Year B.Sc. Optometry Degree Examination - 14-Nov-2025**

**Time: Three Hours**

**Max. Marks: 100**

## **OCULAR ANATOMY, OCULAR PHYSIOLOGY AND OCULAR BIOCHEMISTRY (RS-4)**

**Q.P. CODE: 3343**

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 in detail about the gross anatomy of retina. Explain the various types of cells present in retina
2. Explain the visual pathway and its lesions with the help of a neat diagram

**OR**

Write in detail about anatomy, nerve innervations and actions of superior rectus muscle

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

**10 x 5 = 50 Marks**

3. Write a note on factors affecting corneal transparency
4. Write micro structure of crystalline lens and its functions
5. Write a short note on refractive errors

**OR**

Mention the difference between fovea and optic disc

6. Walls of orbit
7. Mention the nuclei, course, relationship with brain and ocular contribution of optic nerve
8. Write a short about gross anatomy of sclera
9. Write a short note on types of monocular and binocular eye movement
10. Write a note on microstructure of iris

**OR**

Write a note on microstructure of choroid

11. Write a note on composition of tear film
12. Write a note on lesions of pupillary pathway

### **SHORT ANSWER (Question No 15 & 20 choice)**

**10 x 3 = 30 Marks**

13. Part of conjunctiva
14. Mention the glands present in eyelids
15. Mention the age related changes in lens

**OR**

Mention the blood supply of retina

16. Mention the procedure of testing visual acuity at distance
17. Mention the treatment option available for myopia
18. Mention the functions of cornea
19. Write a note on corneal hydration
20. Factors affecting IOP

**OR**

Write the composition of aqueous humor

21. Write a note on special region of sclera
22. Write about the biochemical composition of vitreous

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