

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
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
16. Mention the blood supply of retina
17. Mention the procedure of testing visual acuity at distance
18. Mention the treatment option available for myopia
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
