Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Optometry Degree Examination - 04-Nov-2026

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

OCULAR ANATOMY, OCULAR PHYSIOLOGY AND OCULAR BIOCHEMISTRY
(REVISED SCHEME – 4)
Q.P. CODE: 3343
(QP contains two pages)

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. Discuss in detail about visual pathway with suitable diagrams and flowcharts. Add a note on applied anatomy.

2. Anatomy of angel of anterior chamber and maintenance of intraocular pressure.

   Or

   Write the biochemical composition of lens and explain the metabolism of glucose in the lens.

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

3. Accommodation reflex.

4. Describe the secretion and drainage of aqueous humour.

5. Aqueous humour components.

   Or

   Explain about the layers and functions corneal epithelium.

6. Photochemistry of vision.

7. Theories of color vision.

8. What is Intraocular pressure? Write its clinical significance.

9. Factor effecting corneal hydration.

10. Elaborate microscopic structure of retina.

    Or

    Structure of choroid and its blood supply.

11. Discuss the structure composition and functions of vitreous humour.

12. Write about cavernous sinus.

Rajiv Gandhi University of Health Sciences, Karnataka

SHORT ANSWER (Question No 15 & 20 choice) **10 x 3 = 30 Marks**

13. Macula Lutea.

14. Define visual angel. What do you mean by vision 6/6

15. Sclera.

    Or

    Role of Antioxidants in Retina.

16. Achromatopsia.

17. Measurement of intra ocular pressure.

18. Composition of sclera.

19. Muscles of eyelids.

20. Parts of optic nerve.

    Or

    Embryology of lens.

21. Levator palpebrae superiosis.

22. Electro Oculo Graph.

*****