

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Optometry Degree Examination - 20-May-2023

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 details about production, circulation and drainage of aqueous humour
2. Explain the various anatomical structures involved with Lacrimal drainage system, with the help of a neat diagram

**OR**

Write in details about the gross structure and function of different cells present in the retina

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

10 x 5 = 50 Marks

3. Write a note on corneal wound healing
4. Explain pupillary pathway with proper flow chart
5. Write a short note on theories of color vision

**OR**

Write a short note on act of accommodation

6. Define presbyopia, mention its clinical features and treatment option available
7. Mention the nuclei, course, relationship with brain and ocular contribution of abducent nerve
8. Write in short about gross anatomy of orbit
9. Mention anatomy, innervation and actions of medial rectus
10. Write short note on layers of cornea

**OR**

Write a note on lesions of visual pathway

11. Write a note on composition of vitreous humour
12. Write a note on coats of the eyeball

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

10 x 3 = 30 Marks

13. Explain blood retinal barrier
14. Mention the function of ciliary muscles
15. Mention the age related changes in cornea

**OR**

Mention the clinical impression of aqueous humour

16. Mention the test available for diagnosis of dry eye
17. Define visual acuity. What are the various types of refractive error?
18. Mention the functions of tear film
19. Write a note on antioxidants
20. Enlist the angular structures

**OR**

Write the attachments of vitreous

21. Write a note on scotopic and photopic vision
22. Write about the gross structure of eyebrow

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