Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Optometry Degree Examination – 29-May-2024

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

OPTOMETRIC OPTICS AND DISPENSING (RS-4)
Q.P. CODE: 3346

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. Explain the specifications required while ordering a single vision, bifocals and progressive lens

2. Explain various types of frames and its parts, materials and measurements

Or

Give the sum of these two lenses plano – 3.25 DC x 180 and Plano – 3.25 DC x 45

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

3. Prentice rule and Fresnel prisms

4. Datum system of measurement

5. Write on Spherometer and Sag formula

Or

Lenticular tenses

6. Draw a neat diagram of PAL and label its parts

7. Write on cross-cylinders and give examples

8. PAL measurement

9. Write on vertex distance and its calculation method

10. Pupillometer

Or

A prison made from 1.66 index material is shown to deviate light 6 degree, what is its apical angle?

11. Explain Lens material defects

12. Write a note on selecting frame for children

SHORT ANSWER   **10 x 3 = 30 Marks**

13. Ptosis spectacle

14. High plus lens design

15. How can you repair a broken spectacle bridge?

16. Types of bifocals

17. Geneva lens measure

18. ARC coating

19. Measurement of monocular PD

20. Frame selection for high minus lenses

21. Benefits of scratch resistant glass lenses

22. Difference between glass and plastic photochromatic lens

*****