Second Year B.Sc Optometry Degree Supplementary Examinations
May 2023
Optometric Optics
(2016 Scheme)

Time: 2 hours   **Max. Marks: 40**

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay   (10)

1. Write in details about different frame materials, their advantages and disadvantages. Write about special purpose frames for sports, kids.

Short Notes   (3x5=15)

2. Transpose the prescription -9.00DS/+3.00 DCx180 into toric form with a +1.00D base curve

3. Write a detailed note on various tints used in ophthalmic lenses and its uses.

4. Progressive addition lenses, its types and its advantages and disadvantages.

Answer Briefly   (5x2=10)

5. Write about the thickness-refractive index relationship.

6. Explain polarized lenses.

7. What is jump effect. What is the formula to calculate the same.

8. What are cord and striae.

9. Lenticular lenses.

One-word answer   (5x1=5)

10. Calculate the prismatic effect exerted at a point 5mm above the geometric center of a lens of power of +3.00D.

11. Type of frame to avoid ring scotoma.

12. Name the material using for antireflection coating.

13. Write the sag formula.

14. Name the optometric instrument working on principle of spherometer.

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