

QP Code: 227013

Reg. No:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary
Examinations January 2024
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. Explain what are spherical aberration, coma and oblique astigmatism aberration in details and what are the ways to minimize the same.

Short Notes (3x5=15)

2. Various faults on the surface of a lens.
3. Write about different tints available for ophthalmic lenses.
4. Materials used in ophthalmic lenses.

Answer Briefly (5x2=10)

5. Lenticular lenses.
6. Explain optical axis and nodal point in a thin convex lens.
7. Write about abbe value of lens material and its importance.
8. Transpose to all possible forms.
 $-6.50\text{Dsph}/+6.50\text{Dcyl} \times 135^\circ$
9. Draw a neat diagram of spectacle with parts.

One Word Answers (5x1=5)

10. The abbe value of crown glass is _____.
11. _____ is the refractive index of trivex.
12. _____ bifocal design has minimal image jump.
13. While viewing through a prism, the image is shifted towards _____ of the prism.
14. _____ temple is prescribed to kids.
