

**Second Year B.Sc Optometry Degree Supplementary Examinations
February 2023****Optometric Optics****(2014 scheme)****Time: 2 hrs****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. Describe the optics and various designs of progressive lenses with diagrams.

Short notes**(3x5=15)**

2. Properties of a cylindrical lens with diagrams
3. Protective eye lenses for the purpose of industrial use.
4. Various types of coating of spectacle lenses

Answer briefly**(5x2=10)**

5. What are risley prisms. What are the features.
6. Explain the effect of decentration of spectacle lenses.
7. Explain the circle of least confusion in the Sturm's conoid.
8. What are the important frame measurements.
9. Explain the importance of inter-pupillary distance in spectacle prescription

Give precise answers**(5x1=5)**

10. Prentice rule.
11. Simple transposition of +4.5DD/ -1.5DC 900.
12. Pantoscopic tilt.
13. What are spectacle magnifiers.
14. Toughened lens.
