

**Second Year B.Sc Optometry Degree Supplementary Examinations  
April 2019**

**Optometric Optics**

**(2014 scheme)**

**Time: 2 hrs**

**Max marks: 40**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essay** (10)

1. Discuss Sturm's conoid and circle of least confusion with a neat diagram. Add a note on spherical equivalent and its advantages.

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

2. What are the materials used for making spectacle lenses. What are the advantages and disadvantages of each
3. What are types of bifocal spectacle lenses. What are the advantages and disadvantages of each.
4. What are ophthalmic prisms. Describe the uses of ophthalmic prisms.

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

5. What are tinted lenses. Why are they used.
6. What is back vertex distance. What is its importance.
7. What are spectacle magnifiers. What are the indications.
8. What are field of view lenses. What are the indications.
9. What is Prentice rule.

**Fill in the blanks** (5x1=5)

10. Eye protector filters are used to \_\_\_\_\_
11. What are protective lenses
12. Ghost images in spectacle lenses are caused because \_\_\_\_\_
13. Pantoscopic tilt refers to \_\_\_\_\_
14. What are high density lenses

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