

QP Code: 227013

Reg. No:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary
Examinations February 2022**

**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. Describe various types of lens coatings. Discuss the advantages and disadvantages of lens coatings.

Short Notes

(3x5=15)

2. Describe magnification in high plus lenses.
3. Describe vertex distance and its importance.
4. What are the special considerations in prescription of spectacles in children.

Answer Briefly

(5x2=10)

5. Explain prentice rule. Mention its application.
6. Spherometer. What are the uses.
7. Pantoscopic tilt. What is its importance.
8. What are photochromic lenses. What are the indications.
9. Describe the optical disadvantages of bifocal lenses.

Give Precise Answer

(5x1=5)

10. Calculate the spherical equivalent of $-2.75DS/-2.00 DC \times 145$
11. Explain the effect of tilt on the power of spectacles.
12. Sag formula.
13. What are polaroids.
14. What are the advantages of hi-index lenses.
