

QP Code: 227013

Reg. No:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary
Examinations February 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 a note on manufacturing process of glass and plastic lenses.

Short Notes

(3x5=15)

2. Compound 3Δ base up and 4Δ base in into a single prismatic effect for the right eye.
3. Write a note on methods to check quality of finished ophthalmic lenses.
4. What are the special considerations in prescribing spectacles for paediatric population

Answer Briefly

(5x2=10)

5. What is Abbe number. What is the significance of the same in ophthalmic lenses.
6. Calculate the center thickness of a plano convex-lens of radius 52.3mm, diameter of 40mm and edge thickness of 1mm.
7. Write a note on Fresnel prism.
8. Mention two disadvantages High plus lenses.
9. Write a note on Photochromic lenses

Give Precise Answer

(5x1=5)

10. Transpose to negative cylinder format: $-1.50S/+2.75DC\times 90$.
11. Pantoscopic tilt.
12. What are the advantages of D-Bifocal lenses.
13. Anti-reflection coating.
14. What are Aspheric lenses.
