

QP Code: 227013

Reg. No:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary
Examinations November 2025
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*
- *Simple calculator shall only be permitted*

Essay (10)

1. Explain astigmatism with the help of “conoid of strums” line diagram

Short Notes (3x5=15)

2. What are progressive addition lenses. Explain different designs with a diagram
3. Write about D-Bifocal lenses (uses, advantage and disadvantages)
4. Explain how polarized lenses work and its advantages

Answer Briefly (5x2=10)

5. Write about relationship of lens thickness and refractive index
6. What is oblique astigmatism, explain with diagram
7. Write about how to do aspheric lens fitting and the points to consider while dispensing the spectacle
8. To eliminate spherical aberration what change in lens surface is indicated
9. How Dioptric power is related to vergence of light when it interacts with lens

One Word/ Brief Answers (5x1=5)

10. Define irregular astigmatism
11. Convex lens is a combination of _____ Prisms
12. What happens when light enters from denser medium to rarer medium
13. What is critical angle in total internal reflection
14. _____ is the refractive index of CR₃₉

CORRECTION / NO-CORRECTION FILE
--

QPCODE: 227013

Dated: 05-12-2025

Question No.1

Replaced with "Explain about various faults on a lens."

Question No.10

Replaced with "----- temple is prescribed to kids."

Extra time of 10 minutes allowed.

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS