

**Third Year B.Sc Optometry Degree Regular/Supplementary Examinations
November 2025**

Low Vision aid, Dispensing Optics and Mechanical Optics

(2016 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 in brief two ocular disorders which lead to central field loss and two disorders in peripheral vision loss

Short notes

(3x5=15)

2. Explain the process of measurement of bifocal spectacle power in a manual lensometer
3. Explain the significance of visual field testing in low vision patients
4. Explain in detail about the factors affecting adjustment to vision loss in low vision patient

Answer briefly

(5x2=10)

5. Differentiate between measuring Inter-Pupillary Distance (IPD) for distance and near vision.
6. If a patient has difficulty locating object on desk, which low vision devices may be recommended.
7. What is the tube length of a telescope when the ocular lens is -75.00 D and the objective lens is +30.00 D.
8. The amount of convergence required by a patient when the patient is reading with +6.00 D lens and the distance IPD is 65 mm.
9. Write in detail about faults in spectacle lenses.

One word answer

(5x1= 5)

10. What will be the orientation of the prisms prescribed in patients with bitemporal hemi anopia.
11. When a prism is recommended for a patient with a bitemporal hemianopia the base of the prism should be placed towards which aspect of spectacle lens.
12. What is the most common cause for peripheral field defect in low vision patient.
13. What is a Three-piece frame.
14. Name one hypoallergenic metal frame material.

CORRECTION / NO-CORRECTION FILE
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QPCODE: 323013

Dated: 07-11-2025

Question No.1

Modified as "Describe in brief two ocular disorders which lead to central field loss and two disorders in peripheral field loss. Add a note on their low vision management options (2+2+6)."

Question No.8

Replaced with "Draw and label progressive lens markings."

Question No.10

Replaced with "Transpose +4.00DS/-1.50DC X 180."

Question No.12

Replaced with "ANSI stands for _____."

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