

**Third Year B.Sc Optometry Degree Supplementary Examinations
April 2025**

Dispensing optics, Mechanical optics, Contact lens and Low vision aids

(2014 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*
- *Simple calculator shall only be permitted*

Essay

(10)

1. Write a note on the following:

- a) Hand magnifiers
- b) Stand magnifiers
- c) Telescopes

Short notes

(3x5=15)

- 2. Define Low vision. Write note on Non-optical Low Vision Aids.
- 3. Explain plastic photo-chromatic lens and compare them with glass photo-chromatic lenses.
- 4. What is polarization. Explain with diagram. Describe polarized filters, its manufacturing and advantages.

Answer briefly

(5x2=10)

- 5. Define glazing
- 6. Write a note on boxing system of frame measurement system
- 7. Explain about requirement of UV protection in contact lens users
- 8. Write about disadvantages of optical low vision aids
- 9. Write about indications of Soft contact lenses

State true or false (If false give reasons)

(5x1= 5)

- 10. Uncoated glass has better UV protection than uncoated CR39
- 11. Monochromatic aberration are same and also part of chromatic aberration
- 12. Polycarbonate is the spectacle lens material with highest impact resistance
- 13. Convex lenses of high power results in barrel shape distortion
- 14. Distometer is used to measure focal length