

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