

**Third Year B.Sc Optometry Degree Supplementary Examinations
September 2018**

**Dispensing Optics, Mechanical Optics, Contact Lens and Low Vision Aids
(2010 Scheme)**

Time: 3 hrs

Max marks: 100

- **Answer all questions**
- **Draw diagram wherever necessary**

Essays (2x20=40)

1. Elaborate the steps and methods in the preliminary examination of contact lens subjects.
2. What are the different types of faults in lenses and how would you inspect it

Short notes (5x5=25)

3. Steps in glazing
4. Types of faces and the choice of frames
5. Significance of the components in contact lens solution
6. Construction and uses of Amsler chart
7. Optics and uses of Bausch and Lomb keratometer

Answer briefly (10x3=30)

8. Advantages and disadvantages of hand magnifier
9. Eccentric fixation vs eccentric viewing
10. Indications for toric contact lenses
11. List the errors during interpupillary distance measurement
12. Contrast sensitivity charts
13. Compounds used for lens polishing
14. How to demonstrate stand magnifiers to patients
15. Advantages of E-style bifocals
16. Low vision aids for field defects
17. Uses of Galilean telescope.

One word answer (5x1= 5)

18. The horizontal visible iris diameter is
19. The refractive index for which the keratometer is calibrated is
20. The portion of the temple that is nearest its attachment to the front is known as
21. technology is used to make anti-scratch lens
22. Enlargement of an object is dependent on the of the lens
