

**Third Year B.Sc Optometry Degree Examinations, August 2016**

**Dispensing Optics, Mechanical Optics, Contact Lens and Low Vision Aids**

**Time : 3 hrs**

**Max marks : 100**

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

**Essays**

**(2x20=40)**

1. Explain the materials used in manufacturing of contact lenses and contraindications of contact lenses.
2. Explain in detail about optical and non-optical low vision devices.

**Short notes**

**(5x5=25)**

3. Types of frames
4. What are the processes involved in surfacing and polishing of glass lenses
5. Methods involved in inspection of faults in lenses
6. Contact Lens Solutions
7. Standard alignment of frames.

**Answer briefly**

**(10x3=30)**

8. Cellulose acetate
9. Prosthetic contact lens
10. Monel & nickel
11. What are the different facial shapes
12. List the various lens design
13. Contact lens fitting in keratoconus
14. Amsler grid chart.
15. Edging.
16. Pliers.
17. Abbe value.

**One word answer**

**(5x1= 5)**

18. In grinding the lens are milled with a..... to give its thickness and radii of curvature.
19. .... connects the frame front to the temple and allows the temple to swing.
20. .... indicates the ability of a lens material to purely refract white light without chromatic aberration.
21. .... are recommended for round face.
22. Spectacle magnifier is .....

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