

**Q.P. Code: 312013**

**Reg. No.:.....**

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

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

**(2014 Scheme)**

**Time: 2 hrs**

**Max marks: 40**

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

**Essay (10)**

1. Enumerate common disorders leading to low vision. Describe in details about problems and management of the following conditions.

- Corneal opacity
- Albinism
- Macular degeneration

**Short notes (3x5=15)**

2. Fitting procedure of soft contact lens and evaluation.
3. Define and classify magnification. Describe briefly on stand magnifiers
4. Mention types of bifocal and explain in detail about Kryptok and D bifocal

**Answer briefly (5x2=10)**

5. Define oxygen permeability and transmissibility
6. Name the stabilization techniques in soft toric contact lens
7. List down the advantages of aspheric lenses
8. Name the properties of ophthalmic lens material
9. Define low vision

**One word answer (5x1= 5)**

10. Which of the following solution properties has the least effect on initial comfort
  - Low pH
  - Viscosity
  - Tonicity
  - Preservative concentration
11. Name one FDA group-II lens
12. Define extended wear lenses
13. Drysdale principle is used to measure.....
14. During normal closed eye sleep the cornea swells by an average of
  - 0 percent
  - 2 percent
  - 4 percent
  - 20 percent

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