

Q.P. Code: 312013

Reg. No.:.....

Third Year B.Sc Optometry Degree Supplementary Examinations May 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. Describe progressive additive lenses in the following heading with a neat diagram -
Temporary marking and its importance, permanent marking and its important, hard and soft design in detail (2.5+2.5+5)

Short notes (3x5=15)

2. The mechanism of hydrogen peroxide disinfection system
3. Define low vision and classify low vision.
4. Define spectacle magnification. Explain the magnification produced by a spectacle magnifier for an object placed at the anterior principal focus of the lens

Answer briefly (5x2=10)

5. What is LARS and where will you apply
6. Name the methods of inspecting the quality of lenses
7. Define modulus of elasticity and give with example of any two commercially available lenses
8. List down any four optical devices
9. Define refractive index and abbe value

One word answer (5x1= 5)

10. A telescope is used by an uncorrected myope to see a distant object to see clear image, the myope will have to.....the tube length of the telescope
11. "----- Keratitis is commonly seen in contact lens wearers
12. In soft contact lens Filcon refers to
13. What is the name of instrument to measure vertex distance
14. "Refractive index of poly carbonate lens is -----
