

Second Year B.Sc Optometry Degree Examinations October 2017

Optometric Optics

(2014 scheme)

Time: 2 hrs

Max marks: 40

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

Essay **(10)**

1. Describe the parts of a spectacle frame with the help of a neat figure and explain the boxing system.

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

2. Describe the steps of toric transposition. Transpose the following prescription in to toric form with base curve -6.00 D, -8.00 D S / -2.00 DC*90"
3. What is surfacing of glass lenses. Write on the stages in surfacing.
4. Polycarbonate lenses

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

5. List down 4 metals used for spectacle frames
6. Describe tarnish and greyness lens defects
7. Brief any two differences between D-Bifocals and Kryptok Bifocals.
8. Define prism diopter and catoptric power
9. Brief on the soft design of progressive addition lenses

Fill in the blanks **(5x1=5)**

10. Name the two portions of a lenticular lens
11. Name any one condition in which the ghost images may cause the spectacle wearer trouble
12. Name two glass cements
13. Abbe value of crown glass is"
14. When lightning strikes a bed of dry sand, the natural glass formed due to fusing of sand is _____