

QP Code: 227013

Reg. No:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary
Examinations September 2019**

**Optometric Optics
(2016 Scheme)**

Time: 2 hours

Max. Marks: 40

- Answer all questions
- Draw diagrams wherever necessary

Essay

(10)

1. Describe about the bifocals with the neat diagram

Short Notes

(3x5=15)

2. Selection of spectacles for a high myope
3. Write briefly about the following designs of progressive addition lenses:
 - Advanced soft design
 - Mono-design
 - Symmetric lens design
 - Multi-Design
 - Soft design
4. Various faults on the surface of a lens

Answer Briefly

(5x2=10)

5. Frame considerations for a pediatric subject
6. Uses of photochromic lenses
7. Types of spectacle temples
8. What is abbe value
9. Effective power.

Give Precise Answer

(5x1=5)

10. Transpose the prescription into one of its alternate forms $\pm 0.00/-4.00$ DC X 55 .
 $+ / - 4.00$ DC*55
11. List two differences between D-Bifocals and Kryptok Bifocals
12. Refractive index of polycarbonate.
13. Calculate the jump exerted by the following lens: -2.00 DS, Add $+1.00$ DS Segment 50mm
14. Uses of aviator spectacle design
