

QP Code: 227013

Reg. No:.....

Second Year B.Sc Optometry Degree Examinations October 2018

Optometric Optics
(2016 Scheme)

Time: 2 hours

Max. Marks: 40

- Answer all questions
- Draw diagrams wherever necessary

Essay (10)

1. Describe various types of lens defect and methods of detection

Short Notes (3x5=15)

2. Types of bifocal designs with advantages and disadvantages
3. Describe a prism with the help of a neat diagram and explain the procedure used to detect prism in spectacle.
4. Aspheric lens design

Answer Briefly (5x2=10)

5. Ophthalmic frame options for pediatric population
6. Role of blue light filter coating
7. Write on any two axis notation for cylindrical lenses.
8. Abbe Value
9. Define prentice rule

Fill in the blanks (5x1=5)

10. What is the prismatic effect produced at a point 15mm inwards from the optical center of a -3.50DS lens given for the right eye
11. 2Δ BD and BO @ 20 in Old English Notation = _____ in 360° Notation
12. _____ crystals are present in photo chromatic filters (lens)
13. Polycarbonate has the property of UV radiation protection. True or false
14. Define best form spherical lens
