

Second Year B.Sc Optometry Degree Supplementary Examinations April 2017

Optometric Optics

(2014 scheme)

Time: 2 hrs

Max marks: 40

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

Essay

(10)

1. Describe about laminated lenses and polycarbonate lenses in detail

Short notes

(3x5=15)

2. Calculate the vertical, horizontal and the single resultant prismatic effects at a point 8mm below and 5mm inwards from the optical center of the lens +4.00DS for the right eye
3. Draw a neat labeled diagram of progressive addition lenses with its micro etchings and mention their importance. How do we find the power for distance in a progressive addition lenses.
4. Describe different types of ARC and their principle in ophthalmic lenses

Answer briefly

(5x2=10)

5. Iseikonic lenses
6. Multi-design aspect of progressive addition lenses
7. The yellow absorbing filters
8. Mention the optical requirements of the bifocal lenses
9. What is pantoscopic tilt and mention its use in spectacle dispensing

Fill in the blanks

(5x1=5)

10. Transpose the prescription into one of its alternate forms: -0.75DC*20/+0.75DC*110
11. Which is the narrow waveband of radiations giving rise to sensation of vision
12. What is indicating with BSEN 170
13. which property of ophthalmic lenses is describing by Abbe value
14. Divide the 4▲ BU on right eye before both the eyes
