

[LK 0217]

FEBRUARY 2017

Sub.Code :6022

**B.Sc. OPTOMETRY  
SECOND YEAR**

**PAPER I – OPTOMETRIC OPTICS - (I and II)**

*Q.P. Code: 806022*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain in detail about different types of spectacle lens tints and coatings.
2. Explain the spectacle lens manufacturing process.
3. Write in detail about different types of spectacle frames.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Photochromic lenses.
2. Lens decentration.
3. Properties of cross cylinders.
4. Aspherical lenses.
5. What is Fresnel prism? What are the uses of Fresnel prisms?
6. Boxing system.
7. Explain about spectacle lens quality inspection procedures. Name few lens quality defects.
8. Bifocal lenses.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Abbe value.
2. Polaroid lens.
3. What are the advantages of polycarbonate lenses?
4. Transpose: + 3.00 DS / - 1.50 DC X 70.
5. Define prism and give the unit of prism power.
6. Pantoscopic tilt.
7. Toughened lens.
8. Fused bifocal.
9. Types of bridges.
10. Meniscus lens.

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