

[LJ 0816]

AUGUST 2016

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. Aberrations in ophthalmic lenses.
2. Toric transposition with example.
3. Progressive Addition lenses (PAL).

**II. Write notes on:**

**(8 x 5 = 40)**

1. Photochromatic Filters.
2. How to inspect quality of lens?
3. Bifocals.
4. Types of lens materials.
5. Classify different frame types and parts.
6. Polaroid Lenses.
7. Tilt induced power.
8. Vertex power and Vertex distance.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Fresnel Prisms.
2. Knapp's law.
3. Spherical aberration.
4. Simple Transposition.
5. Optic centre.
6. Toughened lenses.
7. Meniscus lenses.
8. Antiscratch coatings.
9. Ghost Images.
10. Faults on lens surface.

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