

[LJ 0816]

AUGUST 2016

Sub. Code: 2703

B. OPTOM
(New Syllabus 2015-2016)

FIRST YEAR

PAPER III – PHYSICAL AND GEOMETRICAL OPTICS

Q.P. Code: 802703

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Light-Properties of Light, Spectrum of Light and its Measurement.
2. Aberrations in Optics.
3. Astigmatism – causes, types and corrections with Lenses.

II. Write notes on:

(8 x 5 = 40)

1. Applications of Interference.
2. Applications of polarization.
3. Ultra violet Spectrum.
4. Oblique Astigmatism.
5. Dispersive power of Prism.
6. Presbyopia.
7. Lasers in Ophthalmic Applications.
8. Anomalies of pupillary reactions.

III. Short answers on:

(10 x 3 = 30)

1. Rectilinear Propagation – Phenomenon.
2. Resolving power of Eye.
3. Photo Electric Effect.
4. Snell's Laws of Refraction.
5. Vertex power.
6. Field of View.
7. Prism Deviation in prisms.
8. Angular Magnification of Spectacles.
9. Define Ametropia.
10. Argon lasers and uses.
