

[LK 0217]

FEBRUARY 2017

Sub. Code: 6002

B.Sc. OPTOMETRY

FIRST YEAR

PAPER I – PHYSICAL AND GEOMETRICAL OPTICS - (I AND II)

Q.P. Code: 806002

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Interference phenomenon in Optics and its applications.
2. Laws of reflection and refraction of Light and its Applications in Optics.
3. Laser Optics and its Applications.

II. Write notes on:

(8 x 5 = 40)

1. Resolving power of optical instruments.
2. Thomas young experiment.
3. Electro Magnetic Spectrum.
4. Spherical Aberrations.
5. Magnifying the power of Simple and Compound Microscopes.
6. Aphakia.
7. Corneal Dystrophies.
8. Keratoconjunctivitis sicca.

III. Short answers on:

(10 x 3 = 30)

1. Einstein's Quantum Theory.
2. Raman Effect.
3. Fraunhofer Diffraction.
4. Total Internal Reflection.
5. Achromatic prisms.
6. Double optic lever.
7. Critical angle of Glass.
8. Angular Magnification.
9. Lens power.
10. Vertex distance.
