

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. Laser optics and its applications.
2. Describe the cardinal points of the optical system.
3. Properties of light and spectrum of light and measurement.

II. Write notes on:

(8 x 5 = 40)

1. Infrared spectrum.
2. Gullstrand's schematic eye.
3. How hypermetropia can be remedied?
4. Visual acuity.
5. Wedge shaped thin films.
6. Raman effect.
7. Nodal points and nodal planes.
8. Vitamin A deficiency.

III. Short answers on:

(10 x 3 = 30)

1. Distortion.
2. Resolving power.
3. Photo electric effect.
4. Define ametropia.
5. Vertex power.
6. Critical angle of glass.
7. Coherence and its types.
8. Prism.
9. Types of lenses according to shapes.
10. Spectrometer.
