

[LJ 0816]

AUGUST 2016

Sub.Code :2704

B. OPTOM
(New Syllabus 2015-2016)

FIRST YEAR

PAPER IV – PRINCIPLES OF LIGHTING

Q.P. Code: 802704

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Discuss about the theories on light.
2. Explain in detail about illumination with regard to ophthalmology.
3. Elaborate on the effects of glare and how to prevent it?

II. Write notes on:

(8 x 5 = 40)

1. Contrast sensitivity.
2. Flicker photometer.
3. Infrared spectrum.
4. Primary colours.
5. Measurement of illuminance.
6. Concepts of lighting design.
7. Optical fiber communication.
8. Photometer.

III. Short answers on:

(10 x 3 = 30)

1. Attributes of colour.
2. Visual acuity.
3. Factors affecting visual task.
4. Visual performance.
5. Inverse square law.
6. Visible range of electromagnetic spectrum.
7. Define depreciation factor.
8. Secondary colours.
9. Applications of ultraviolet rays.
10. Light sources.
