

[LP 0819]

AUGUST 2019

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. Computer vision syndrome.
2. Discuss about fibre optic communication and its uses.
3. Theories of light.

II. Write notes on:

(8 x 5 = 40)

1. Maxwell's theory.
2. Factors affecting visual task.
3. Types of glare.
4. Fitters used in ophthalmology.
5. Colour rendering and temperature.
6. Short notes on ultra violet spectrum.
7. What is Lambert's cosine law?
8. What is solar constant?

III. Short answers on:

(10 x 3 = 30)

1. Define prism.
2. Write notes on infra red spectrum.
3. Define candela.
4. Discomfort glare.
5. Unit of luminance efficacy.
6. Solid angle.
7. Visual range of electromagnetic spectrum.
8. Addictive colour synthesis.
9. Contrast sensitivity.
10. Tertiary colours.
