

[LM 0218]

FEBRUARY 2018

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. Optical fibre communication.
2. Relate light and vision.
3. Briefly explain filters.

II. Write notes on:

(8 x 5 = 40)

1. Types of lighting.
2. Notes on discomfort glare.
3. Explain the 2 colour synthesis.
4. Write a note on utilization factor.
5. Explain inverse square law.
6. Basic aspects of lighting design.
7. Factors affecting visual task.
8. Notes on light sources.

III. Short answers on:

(10 x 3 = 30)

1. Define candela.
2. What is a primary colour?
3. Define luminous flux.
4. Give any 3 properties of light.
5. Define prism.
6. What is contrast sensitivity?
7. What is photometry?
8. What is disability glare?
9. Psychological consideration of lighting.
10. What is Illumination?
