

[LK 0217]

FEBRUARY 2017

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 fiber optic communication and its uses.
2. Explain about the computer vision syndrome.
3. Explain in detail about Goethe's theory.

II. Write notes on:

(8 x 5 = 40)

1. What are the factors affecting visual task?
2. Write notes on Photometry and the eye.
3. Explain about the modern light sources.
4. What is luminous efficacy?
5. Write short notes on filters.
6. Write about additive colour synthesis.
7. Write short notes on ultraviolet spectrum.
8. What is solid angle?

III. Short answers on:

(10 x 3 = 30)

1. What is meant by subtractive synthesis of colours?
2. Define Candela.
3. What is colour temperature?
4. Write short notes on discomfort glare.
5. What is Solar constant?
6. Write notes on infrared spectrum.
7. Mention the laws of illumination.
8. Define Contrast sensitivity.
9. Write about some good practices in lighting.
10. Define colour rendering.
