



**Department of Electrical Engineering**

**Question Bank – ESPD – Unit 3**

Que1: Define Illumination. What are the terminologies associated with Illumination?

Que2: Define Luminous Intensity, Luminous Flux and Illuminance? Write the SI Units for the same.

Que3: Explain the Inverse square and cosine Laws of illumination. Why these laws may not be applicable to Indoor lightning? Write the mathematical expression for both the laws.

Que4: Explain the various types of light sources in details with a neat sketch?

Que5: Classify the various types of lamps along with their advantages and disadvantages?

Que6: Explain the various practical lightning schemes. Elaborate all of them.

Que7: Write down the applications of various types of lamps?

Que8: Differentiate various lamps on the basis of lightning output and Operating life?

Que9: What is maintenance and Depreciation factor?

Que10: Give the mathematical expression for calculation of illumination?

Que11: What is the standard for mount height and distance between lightning fittings?

Que12: On what factors does of coefficient of utilization depends?

Note: Practice Numericals of Illumination calculation from Raina and Bhaatacharya