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**Fourth Semester B.Arch. Degree Examination, June-July 2009**  
**Building Services – II**

Time: 3 hrs.

Max. Marks:100

**Note: 1. Answer any THREE questions from Part-A and TWO questions from Part-B.**

**2. Draw sketches as per need and assume proper data.**

**PART – A**

- 1 a. State and explain the laws of illumination. (06 Marks)  
b. What are Luminaires? Explain with relevant neat sketches. (14 Marks)
- 2 a. What is meant by quality of lighting? Explain the various factors affecting the quality of indoor lighting. (10 Marks)  
b. Describe the lighting characteristics of a typical Incandescent lamp. Explain the construction of Incandescent lamp in brief. (10 Marks)
- 3 a. Explain what is meant by artificial lightings. (06 Marks)  
b. Describe how the general distribution of electric power is done for a small city. (14 Marks)
- 4 State the difference between the following  
a. Direct and Indirect lighting.  
b. A.C. and D.C.  
c. Service line and distribution line.  
d. Insulation and conduction.  
e. Single phase and three phase wiring. (20 Marks)

**PART – B**

- 5 Describe with neat sketches electrical installation for a typical one bed room house from the distribution to all the electrical points assuming your own data. (20 Marks)
- 6 Explain with sketches the following (any 4)  
a. Earthing  
b. Fuses  
c. Meter board  
d. Transformers  
e. Switch board (20 Marks)
- 7 Write short notes on the following  
a. Circuit breaker  
b. Panel board  
c. Main switch  
d. Service line. (20 Marks)