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**Fourth Semester B.Arch. Degree Examination, Dec.09-Jan.10**  
**Buildings Services - II**

Time: 3 hrs.

Max. Marks:100

*Note: Answer any FIVE full questions, selecting  
at least TWO questions from each part.*

**PART - A**

- 1 a. What are the advantages and disadvantages of overhead line system and underground cable system for service connections? (12 Marks)
- b. Explain different types of conductors. (08 Marks)
- 2 a. What are the provisions to be made for electrical installation practices related to wiring? (15 Marks)
- b. What is earthing? Why is it done? Name the methods of earthing. (05 Marks)
- 3 Write short notes on the following :
  - i) MCB
  - ii) Generator
  - iii) Panel Board
  - iv) ELCB (20 Marks)
- 4 Draw a single line sketch of a residence having living room, dining, kitchen, store, bedroom, bath, WC, gallery and stair case and prepare the electrical layout for the same, using standard electrical symbols. Also calculate the electrical load for the same. (20 Marks)

**PART - B**

- 5 a. Explain with a neat sketch, the features of a sodium vapour lamp. (06 Marks)
- b. Explain in detail the methods of indoor lighting. (14 Marks)
- 6 Explain briefly the methods of artificial illumination for the following spaces.
  - i) Living room of a bungalow
  - ii) Museum
  - iii) Garden
  - iv) Work space in an office (20 Marks)
- 7 a. Explain the measures adopted to control the glare. (05 Marks)
- b. Discuss the systems of luminaires with neat sketches. (15 Marks)
- 8 Write short notes on the following :
  - a. LED
  - b. Colour Rendition
  - c. HID lamps
  - d. Inverse square law of illumination. (20 Marks)