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Fourth Semester B.Arch. Degree Examination, December 2010
Building 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. Why are the protective devices necessary for electrical wiring? Describe any one of them, in detail. (10 Marks)
- b. With a neat block diagram, explain in detail, the distribution of electricity from the generating station to the individual consumer. (10 Marks)
- 2 a. Explain the electrical wiring systems. (10 Marks)
- b. Explain the wiring of a building, with a single phase A.C. supply. (10 Marks)
- 3 Draw a single line diagram of a two bedroom residential building and prepare the electrical layout for the same, using standard electrical symbols. Also, calculate the electrical load for the same. (20 Marks)
- 4 a. List the general ISI rules, related to the wiring. (14 Marks)
- b. Write short notes on any two: (06 Marks)
 - i) Substation
 - ii) Cables
 - iii) Transformer
 - iv) A.C. and D.C.

PART – B

- 5 a. Explain the illumination and laws of illumination. (10 Marks)
- b. What are the different types of lamps, used for lighting? Explain the factors that are considered in the design of a lighting scheme. (10 Marks)
- 6 a. Explain in brief, with neat sketches, the different types of lighting schemes. (10 Marks)
- b. With neat sketches, explain the construction and working of (10 Marks)
 - i) Incandescent lamps
 - ii) Fluorescent lamps.
- 7 Write short notes on: (20 Marks)
 - a. Accent lighting
 - b. Halogen lamps
 - c. Floodlighting
 - d. Glare
- 8 Mention the methods of lighting for (20 Marks)
 - a. Food court
 - b. Children's park
 - c. Auditorium
 - d. Architects' cabin

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2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42, 50, will be treated as malpractice.