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ARC4.6

Fourth Semester B.Arch. Degree Examination, June/July 08
Building Services – II

Time: 3 hrs.

Max. Marks:100

- Note :** 1. Answer any FIVE full questions, minimum TWO questions from each Part.
2. Draw sketches wherever necessary.

Part – A

- 1 a. Explain the typical power generation scheme by which the electrical energy is obtained from water and supplied to the users through transmission and distribution networks. Give the line diagram of the power scheme. (06 Marks)
b. Explain the importance of earthing in electrical installation. Describe the method of pipe earthing in detail with sketch. (14 Marks)
- 2 a. Describe various methods adopted for wiring in the building. (14 Marks)
b. Explain the general structure of the cables with sketch. (06 Marks)
- 3 Draw a single line sketch of a two bed room 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 Write short notes on any four :
 - a. Substation
 - b. Transformer
 - c. AC and DC
 - d. Protective devices. (20 Marks)

Part – B

- 5 a. Write in brief the characteristics and advantages of good lighting. (10 Marks)
b. Explain cause of glare in indoor lighting. Suggest suitable measures to control the same. (10 Marks)
- 6 a. Discuss in detail the different light systems with examples. (10 Marks)
b. Explain lighting and constructional features of incandescent and fluorescent lamps. (10 Marks)
- 7 Write short notes on any four :
 - a. Task-Ambient lighting
 - b. HID lamps
 - c. Mercury vapour lamps
 - d. Laws of illumination
 - e. Neon lights. (20 Marks)
- 8 Explain in brief the methods of artificial illumination for the following spaces :
 - a. Dental clinic
 - b. Art gallery
 - c. Entrance lobby of 5-star hotel
 - d. Permit room (20 Marks)
