

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT  
Test-2 EXAMINATION – October 2017  
M.Tech. (CM) 1st SEMESTER

COURSE CODE : 10M11CE115

MAXM. MARKS: 25

COURSE NAME : **Mechanical and Electrical Systems in Buildings**

COURSE CREDIT: 03

MAXM. TIME: 1 Hr. 30 Min.

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*Note: All questions are compulsory. Marks are indicated against questions. Write concisely.  
Carrying of mobile phone during examinations will be treated as case of unfair means.*

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- Q.1. What is earthing? Explain the need of earthing an electrical equipment, and how is it done? [5]
- Q.2. How do fire alarm systems work? Draw a schematic diagram of a conventional fire-alarm system. [5]
- Q.3. Draw a typical flow chart for a sewage water treatment. Also describe function of each unit. [5]
- Q.4. What is cone of protection? Describe procedures to protect construction sites from lightening effects. [5]
- Q.5. What are the advantages of wastewater recycling ion buildings? Draw a line diagram showing a two-pipe line system for recycling in a two-storey building. [5]

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