

B.Tech. Civil (Construction Management)

Term-End Examination

June, 2018

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ET-581(C) : BUILDING SERVICES

Time : 3 hours

Maximum Marks : 70

Note : Attempt any **five** questions. All questions carry equal marks. Give neat sketches wherever required.

1. (a) Describe the different sources of water. 7
(b) How can one remove hardness from water ?
Explain. 7
2. (a) What are the different types of materials used in sewer construction ? 7
(b) How can the solid waste be collected ? 7
3. (a) Explain the different types of electrical wiring used for buildings. 7
(b) Write different safety measures for electrical installations. 7
4. (a) What are the components of a staircase ? 7
(b) What are the safety devices for escalators ? 7

5. (a) What are the effects of lightning discharge ? 7
- (b) Explain : 7
- (i) Earth Resistance
- (ii) Earth Termination
6. (a) What is the meaning of comfort and industrial air-conditioning ? 7
- (b) Explain : 7
- (i) Metabolic Rate
- (ii) Cooling Load
7. (a) Explain termite proofing of buildings. 7
- (b) What are the causes of corrosion ? 7
8. (a) What are the hazards of fire in buildings ? 7
- (b) Explain fire alarm systems. 7
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