

B.Tech. Civil (Construction Management)

Term-End Examination

December, 2018

00193

ET-581(C) : BUILDING SERVICES

Time : 3 hours

Maximum Marks : 70

Note : Answer any *five* questions. All questions carry equal marks. Draw sketches neatly wherever required.

1. (a) What are the basic requirements of drinking water ? 7
- (b) What is coagulation ? What are the common coagulants used in water treatment ? 7
2. Discuss the various methods of plumbing used in buildings. Explain clearly. 14
3. What is a manhole ? What are its different types ? Explain any one with a neat sketch. 14

4. (a) Explain the design of Earthing system provided in buildings. 7
- (b) Explain different methods of wiring in buildings. 7
5. What are the principal components of a staircase ? Explain in detail. 14
6. How is cooling load estimated ? Explain with a suitable example in case of residential and commercial buildings. 14
7. (a) Explain Psychrometry. 7
- (b) Explain the following : 7
- (i) Natural ventilation
- (ii) Mechanical ventilation
8. (a) Write about termite control in buildings. 7
- (b) Explain the following terms : 7
- (i) Fire Load
- (ii) Fire Severity
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