

B.Tech. Civil (Construction Management)

Term-End Examination

00467

December, 2017

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) What are the qualities of drinking water ? 7
- (b) Write short notes on the following : 7
 - (i) Coagulation
 - (ii) Softening
2. (a) What are the characteristics of sewage ? 7
- (b) Explain the following : 7
 - (i) Manhole
 - (ii) Gutter inlet
3. (a) Explain the following : 7
 - (i) UPS
 - (ii) Energy audit
- (b) Write about shock protection methods. 7

4. (a) Describe a geometrical staircase with a neat diagram. 7
- (b) Explain the following : 7
- (i) Escalators
- (ii) Elevators
5. (a) What are the effects of lightning discharge ? 7
- (b) Explain the following : 7
- (i) Earth electrode
- (ii) Coil earthing
6. (a) What are Psychrometric charts ? Give their usages. 7
- (b) Explain the following : 7
- (i) Comfort scales
- (ii) Ventilation
7. (a) Describe the different types of water-proofing of buildings. 7
- (b) Explain the following : 7
- (i) Varnish
- (ii) Causes of corrosion
8. (a) Write about fire-fighting equipments. 7
- (b) Explain the following : 7
- (i) Dehumidification
- (ii) Fire resistance
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