

B.Tech. Civil (Construction Management)

Term-End Examination

June, 2015

00451

ET-581(C) : BUILDING SERVICES

Time : 3 hours

Maximum Marks : 70

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

1. (a) What are the sources of water ? What are their characteristics ? 7
- (b) What are the systems of water supply in high rise buildings ? Discuss. 7
2. (a) Explain the following : 7
- (i) Manhole
- (ii) Storm Water Intakes
- (b) Explain the principles of sewage treatment. 7
3. (a) Explain UPS. 7
- (b) What safety precautions are taken in Electrical Installations ? 7

4. (a) Explain the following : 7
(i) Precast concrete steps
(ii) Precast spiral staircase
(b) Explain the process of selection of Elevators. 7
5. (a) What are the effects of lightning discharge on buildings ? Discuss. 7
(b) How can you measure the earth electrode resistance ? Explain. 7
6. (a) Explain the following : 7
(i) Gas laws
(ii) Humidity
(b) Explain the following : 7
(i) VAV
(ii) HVAC
7. (a) Explain the precautions to be taken while termite proofing. 7
(b) What are Sealants ? Explain its usage. 7
8. (a) Explain the following : 7
(i) Hazard and Risk
(ii) Ignition
(b) How is fire detected in buildings ? Explain the process. 7
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