

B.Tech. Civil (Construction Management)

Term-End Examination

June, 2016

00050

ET-581(C) : BUILDING SERVICES

Time : 3 hours

Maximum Marks : 70

Note : Answer any five questions. All questions carry equal marks.

1. What are the various types of pipes used in transmission of water ? Discuss the factors which affect the selection of pipe materials. 14

2. Describe the following types of lamps used in illumination : $4 \times 3 \frac{1}{2} = 14$
 - (a) Incandescent lamps
 - (b) Halogen incandescent lamps
 - (c) High pressure mercury vapour lamps
 - (d) Low pressure sodium pressure lamps

3. Discuss briefly the common equipment used in air-conditioned plants. 14

4. What is anti-termite treatment ? Explain with the help of neat sketches pre-construction and post-construction treatment for anti-termite control. What are the chemicals presently used ? 14

5. Explain the following and their uses : $4 \times 3 \frac{1}{2} = 14$

- (a) Superplasticizers
- (b) Integrated water-proofing compound
- (c) Sealants
- (d) Polyurethane coating

6. (a) What are the peculiar problems relating to protection of tall buildings ? 5

(b) Discuss the remedial measures of the above problems with regard to : $3 \times 3 = 9$

- (i) Fire alarm and extinguishing systems
- (ii) Horizontal and vertical escape routes
- (iii) Lift shaft and staircase

7. Write short notes on the following : $4 \times 3 \frac{1}{2} = 14$

- (a) Method of joining PVC pipes
 - (b) BOD and COD
 - (c) Causes of spalling of concrete
 - (d) Heat Recovery Wheel
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