

B.Tech. Civil (Construction Management)

Term-End Examination

December, 2012

ET-581(C) : BUILDING SERVICES

Time : 3 Hours

Maximum Marks : 70

Note : Answer any five questions. All questions carry equal marks. The answers shall be in your own language.

1. Discuss the problems involved in tackling and extinguishing fires in tall buildings. What remedial measures would you suggest to overcome these problems ? 14

2. (a) What are the different reasons for leakages in buildings ? 2x7=14
(b) Why expansion joints are necessary in large buildings ? Explain, with the help of neat diagrams, designs for various types of expansion joints.

3. Write short notes on the following : 4x3½=14
 - (a) Lightning Arrester
 - (b) Corrosion Control
 - (c) Mechanical Ventilation
 - (d) Cement Based Paints

4. What do you understand by "Energy Conservation" and "Energy Audit" ? What procedure would you follow for energy conservation in lighting and use of electric motors ? 14
5. What is refrigeration ? What are the main components of a single vapour compression refrigeration system ? Explain the functions of these components. 14
6. Explain the application of the following : $4 \times 3\frac{1}{2} = 14$
- (a) Polysulphide based sealant
 - (b) Silicon Emulsions
 - (c) Polyurethane coatings
 - (d) Polymers
7. What do you understand by pre-construction and post-construction anti-termite treatment ? What precautions will you take while doing anti-termite treatment ? 14
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