

**B.Tech. CIVIL ENGINEERING (BTCLEVI)**

**Term-End Examination**

**June, 2016**

00576

**BICE-009 : BUILDING TECHNOLOGY – II**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** Answer any *seven* questions. All questions carry equal marks.

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1. Describe briefly periodic heat flow and its characteristics. 10
2. What are the different types of thermal insulation used in buildings ? Write four advantages of thermal insulation. Explain how you will achieve thermal insulation of roofs in a tropical region. 10
3. Explain various types of joints in steel frames. Also write a brief note on design considerations of tall buildings. 10
4. Write a short essay on the fire-resistant construction of structural elements in view of fire-safety in buildings. 10

5. What are the different modes of building failures ? Explain briefly. 10
6. What are the various types of elevators ? Explain briefly the design considerations of elevators. 10
7. Explain any two methods of distribution of water in a multi-storied building, with the help of a neat sketch. 10
8. What is the need for ventilation in buildings ? Describe briefly the functional requirements of a good ventilation system. 10
9. What do you understand by the term 'Acoustics and Acoustics of a building' ? What are the requirements for good acoustics ? 10
10. Write brief notes on any *two* of the following : 2×5=10
- (a) Measurement of Illumination
  - (b) Comfort Zone
  - (c) Classification of Fire Zone
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