

00990

**B.Tech. CIVIL ENGINEERING**

**Term-End Examination**

**June, 2013**

**BICE-009 : CIVIL ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Answer any seven questions.*

1. Describe briefly periodic heat flow and its characteristics. 10
2. State the various factors which are responsible for heat transference in buildings ? Also explain about external shading devices. 10
3. What are framed structures ? Describe the advantages of Pre fabrication. 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 various types of Elevators ? Explain briefly design consideration of elevators. 10

6. Explain how do you achieve the natural and artificial ventilation in buildings. 10
7. What are the principles of comfort air - conditioning ? Give line sketches to illustrate the summer air-conditioning and winter air - conditioning. 10
8. Explain briefly the characteristics of an audible sound. Write a short essay on the acoustical defects in buildings. 10
9. Describe briefly the various construction procedures adopted for achieving noise control and sound insulation in buildings. 10
10. Write short notes on *any two* of the followings : 2x5=10
- (a) Foundation failure
  - (b) Five extinguishing methods
  - (c) Measurement of illumination
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