

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

Term-End Examination

June, 2019

BICE-009 : BUILDING TECHNOLOGY-II

Time : 3 Hours

Maximum Marks : 70

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

1. Discuss the thermo-physical properties of building materials. Explain thermal gradient and heat flow through buildings. 10
2. Discuss the various fire proof construction methods used for building construction. 10
3. What are the causes of building failures ? How can these failures be avoided ? 10

(A-7) P. T. O.

4. Explain the various types of joints in steel frames. Also write a brief note on design considerations of tall buildings. 10
5. Discuss the respective applications of external shading devices, internal blinds, curtains and special glass in building construction. 10
6. Discuss various components of a typical sewage disposal scheme for a residential colony, with neat flow diagrams. 10
7. (a) Differentiate between air-borne noise and structure-borne noise. 5
(b) Write a note on prefabricated construction with reference to tall structures. 5
8. (a) Make an assessment of the requirements of a good staircase. 7
(b) Give a list on types of steps, in regard to staircase. 3

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9. What is the need for ventilation in buildings ?
Describe briefly the functional requirements of
a good ventilation system. 10

10. Write brief notes on any *two* of the following :

2×5

- (a) Measurement of Illumination
- (b) Air Conditioning
- (c) Daylighting