

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00766

June, 2015

BICE-009 : BUILDING TECHNOLOGY - II

Time : 3 hours

Maximum Marks : 70

*Note : Answer any **seven** questions. Assume any other data, if necessary.*

1. Define daylighting. Outline the design guidelines to be followed in the design of a building for daylighting. 10
2. Explain the solar-air temperature concept as applicable for building design purposes. 10
3. What are the requirements and conditions of good acoustics in a building ? Discuss in detail. 10
4. Describe the fire-resisting properties of concrete, steel and glass used as building materials. 10

5. Differentiate between engineered building and non-engineered building from building failures point of view. 10
 6. Discuss the various components of a typical sewage disposal scheme for a residential colony, with neat flow diagrams. 10
 7. Explain with neat sketches the various sunshading devices. 10
 8. Why is an expansion joint needed in a building ? What are the guidelines for its location ? 10
 9. In which situations do escalators become more essential than elevators in a building ? Discuss the special features and design considerations of passenger elevators, service elevators and goods elevators. 10
 10. (a) Differentiate between air-borne noise and structure-borne noise. 5
 - (b) Write a note on prefabricated construction with reference to tall structures. 5
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