

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2016

BICE-009 : BUILDING TECHNOLOGY – II

Time : 3 hours

Maximum Marks : 70

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

1. Write short notes on any *two* of the following : 10
 - (a) Solar Gain Factor
 - (b) Fire Load
 - (c) Decibel Scale
2. Describe the thermal insulation of roofs and exposed walls. Explain the properties of insulation materials. 10
3. What do you understand by prefabrication ? Discuss the advantages and disadvantages of prefabricated structures. 10
4. Discuss concrete failure and steel failure, with an emphasis on tall buildings. Also give the remedial measures. 10

5. Differentiate between stairs, elevators and escalators. Also provide neat sketches to support your answer. 10
 6. What are the standard requirements for water supply and sewage disposal in buildings ? Discuss in detail. 10
 7. What are the requirements for good acoustics ? Discuss various sound absorbing materials and construction techniques employed for good acoustics. 10
 8. What do you understand by polar distribution curves ? How would you determine the illumination requirements of a building ? 10
 9. Discuss the fire-resisting properties of building materials. Support your answer with suitable examples. 10
 10. Discuss the application of external shading devices, internal blinds, curtains and special glass in building construction. 10
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