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BICE-009

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

## **Term-End Examination**

December, 2015

## BICE-009 : BUILDING TECHNOLOGY – II

Time : 3 hours

Maximum Marks: 70

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

- 1. Explain briefly "Solar temperature concept" and various Sun control devices. 10
- State 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-fabricated structures. 10
- 4. Discuss the important factors considered in planning, selection of materials of construction and the construction techniques to ensure adequate protection of structures against fire. 10

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5.	What are the different types of concrete failure ?Explain any one of them with emphasis oncauses and remedial measures.10	
6.	( <b>a</b> )	Give an assessment of the requirements of a good stair. 7
	(b)	Give a list of types of staircases. 3
7.	(a)	Explain the general rules for natural ventilation. 5
	(b)	What is meant by air-conditioning ? Describe the selection criteria adopted for air-conditioning of a building. 5
8.	(a)	What is the role of mounting height in determining the quantity of artificial light ?Explain briefly.5
	(b)	Write briefly the sewage disposal arrangement for a four-storied building with the help of a suitable sketch. 5
9.	What are the general principles of acousticdesign ? Explain various methods of soundinsulation in buildings.10	
10.	Write brief notes on any <b>two</b> of the following: $2 \times 5 = 1$	
	(a)	Classification of Climates
	(b)	Joints in Steel Frames
	(c)	Thermal Insulation
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