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

**Term-End Examination**

**June, 2013**

**BICE-005 : BUILDING TECHNOLOGY - I**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any seven questions.*

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1. (a) Write the properties and uses of lime. 5  
(b) Describe the seasoning and preservation of timber. 5
2. What are ingredients of cement with their property ? Explain the test carried out to find the initial setting time of cement in detail. 10
3. (a) Write down engineering uses of glass and allied products. 5  
(b) Write down geological classification of rocks with examples. 5
4. Write detailed note on following : 2x5=10  
(a) Thermoplastics and Thermosetting plastics.  
(b) Hot rolled steel sections and cold formed light gauge steel sections.

5. Enumerate the brick laying tools. Differentiate between English and double flemish bond with neat sketches in detail. 10
  6. Define Scaffolding. Discuss the component parts of scaffolding with a neat sketch. 10
  7. Enumerate the types of partition walls. Draw sketch for a stud partitions including labelling of significant locations/parts. 10
  8. Describe the process of Batching, mixing, placing, compacting and curing in reference to concrete construction. 10
  9. What are the materials used for flooring ? How is mud flooring constructed ? Explain in detail 10
  10. Write short notes on *any four* of the following : 2.5x4=10
    - (a) Shoring and Underpinning
    - (b) Types of roofs
    - (c) Types of tiles
    - (d) A.C. sheets
    - (e) Mat foundation
    - (f) Prestressed concrete
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