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BICE-005

B.TECH. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination, 2019

BICE-005 : BUILDING TECHNOLOGY - I

Time : 3 Hours]

[Maximum marks : 70

Note : Attempt any seven questions. All questions carry equal marks.

1. What is the purpose of dressing of Stone ? Discuss the different types of surface finishes employed in Stone Masonry Construction. [10]
2. What are the characteristics of Good Timber ? Explain the terms: Decay of timber, seasoning of timber and preservation of timber. [10]
3. (a) Explain briefly the different types of vibrators used for compaction of concrete. [6]
(b) What is Light Weight Concrete ? What are the materials required to prepare light weight concrete ? [4]
4. Describe the qualities of Glass as building material. Discuss the various varieties of glass and their uses in the building industry. [10]

5. What do you understand by the term "Curing" ? Why is it essential to cure concrete ? What are the various methods commonly adopted in curing ? [10]
6. Draw neat sketches to explain the following types of foundations : [2×5=10]
- (a) Grillage foundations
 - (b) Raft foundations
7. What are the relative advantages and disadvantages of flat roofs over other roof types ? [10]
8. (a) Discuss in detail the method of Plastering. [5]
- (b) What is Pointing ? Discuss different types of pointing. [5]
9. (a) What are the characteristics of an ideal paint ? [3]
- (b) Draw a neat sketch for scaffolding and label the following component parts in the sketch : [7]
- (i) Standards
 - (ii) Ledgers
 - (iii) Put log

- (iv) Guard
- (v) Platform
- (vi) Transom
- (vii) Brace

10. Write short notes on **any four** of the following : [4×2½=10]

- (a) Fibre Board
- (b) Types of Tiles
- (c) Gable Window
- (d) Hot Rolled Steel Section
- (e) DPC
- (f) Types of Floor

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