

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00826

June, 2016

BICE-005 : BUILDING TECHNOLOGY – I

Time : 3 hours

Maximum Marks : 70

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

1. Define the following terms in stonework with the help of neat sketches : 10
 - (a) Corbel
 - (b) Cornice
 - (c) Coping
 - (d) Lacing course

2. Define the following terms in brick-work with the help of neat sketches : 10
 - (a) Stretcher
 - (b) Header
 - (c) Closer
 - (d) Bat

3. Explain Slump Test for workability of concrete with a neat sketch. Discuss the factors affecting workability. 10
4. Define curing. Explain the objects of curing. Discuss briefly the methods of curing of concrete. 10
5. (a) Discuss the causes of failure of foundations. 5
 (b) How are new foundations constructed near old existing adjacent structures ? 5
6. Explain the term damp-proofing. Discuss the causes and effects of dampness. List the materials which are commonly used for providing a damp-proofing course (DPC). 10
7. (a) Explain the methods which are employed when concrete is to be placed under water. 6
 (b) What is meant by a framed structure ?
 What are its advantages ? 4
8. Give a list of different types of doors and windows. Explain with neat sketches, the construction of flush doors. 10
9. Define the term Plastering. What are the requirements of good plasters ? Discuss the defects in plastering. 10

10. Write short notes on any *four* of the following : $4 \times 2 \frac{1}{2} = 10$

- (a) Scaffolding
 - (b) White and Colour Washing
 - (c) Types of Floor
 - (d) Bonds in Brick-work
 - (e) Seasoning of Timber
 - (f) Rapid Hardening Cement
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