

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2015

00956

BICE-005 : BUILDING TECHNOLOGY – I

Time : 3 hours

Maximum Marks : 70

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

1. What are the types of joints used in stone masonry ? Describe each joint with neat sketches. 10

2. Explain the difference between brick masonry and stone masonry with reference to their suitability, cost and method of construction. 10

3. What is industrial timber ? Mention the various forms of industrial timbers and highlight the uses of each form. 10

4. What do you understand by the term “water – cement ratio” ? Explain how the quantity of water affects the strength of concrete mix. 10

5. Write short notes on the following : 2×5=10
- (a) Quick-setting cement
 - (b) Rapid hardening cement
6. What are the outstanding qualities of glass ?
Discuss the various varieties of glass and their uses in the building industry. 10
7. What is meant by safe bearing capacity of soil ?
Explain how it is determined by any one method. 10
8. What are the functions of lintels and arches ?
With a neat sketch show the parts of the arches giving their technical terms. 10
9. What are the relative advantages and disadvantages of flat roofs over other roof types ? 10
10. What are the objectives of plastering ? Name the various types of plasters and mention the requirements of a good plaster. 10
-