

B.TECH. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2013

BICE-005 : BUILDING TECHNOLOGY - I

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions.

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1. (a) Describe the geological classification of rocks. 5
(b) Discuss the common building stones with their uses. 5
 2. What are the possible defects in the timber ? Describe them along with their figures. 10
 3. What is the IS classification of bricks ? Describe the complete process of manufacturing of bricks. 10
 4. (a) Explain the properties of concrete. 5
(b) Discuss the different tests for fresh and hardened concrete. 5
 5. (a) Distinguish between Ordinary Portland Cement (OPC) and Portland Pozzolana Cement (PPC). 5

- (b) What is fineness and setting time of cement ? Briefly explain the tests carried out for these properties of cement. 5
6. Explain in short the spread , grillage, raft and pile foundation with diagram. 10
7. What do you understand by segregation of concrete ? Write the procedure of hand mixing of concrete in detail. 10
8. Explain the procedure of constructioning cavity wall with sketches. 10
9. (a) Discuss in detail the method of plastering. 5
(b) What is pointing ? Discuss the types of pointing. 5
10. Write a short notes on **any four** of the following : $4 \times 2.5 = 10$
(a) Concrete Floor, including specification
(b) Methods of curing
(c) Hot rolled steel section
(d) Pre - cast concrete
(e) Gable window
(f) Laminated flush door.
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