

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00527

June, 2017

BICE-005 : BUILDING TECHNOLOGY – I

Time : 3 hours

Maximum Marks : 70

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

1. (a) Give the classification of rocks. Discuss them in brief. 5
- (b) Discuss the common building stones with their uses. 5
2. What are the possible defects in timber? Describe them along with their figures. 10
3. (a) Give the classification of mortar. Also write the uses of mortar. 5
- (b) What are the properties of hardened concrete? Write the advantages of curing. 5
4. (a) What are the various types of cement? Write the important properties of cement. 5
- (b) Differentiate between quick setting cement and rapid hardening cement. 5

5. What do you understand by prestressed concrete ? What are its advantages and disadvantages ? 10
6. Explain in short, the spread, grillage, raft and pile foundations with diagram. 10
7. (a) Discuss in detail the method of plastering. 5
 (b) What is pointing ? Discuss the types of pointing. 5
8. Write about the types of distempers. Differentiate between paint and distemper. 10
9. (a) What is bleeding of concrete ? What are its effects ? 5
 (b) Define creep. What are the steps taken to reduce the creep ? 5
10. Write short notes on any **four** of the following : $4 \times 2 \frac{1}{2} = 10$
- (a) Hot Rolled Steel Section
 - (b) Gable Window
 - (c) Laminated Flush Door
 - (d) Scaffolding
 - (e) Bonds in Brick-work
 - (f) Dressing of Stone