

Code: CE3T2

**II B.Tech - I Semester – Regular Examinations - January 2014**

**BUILDING MATERIALS AND CONSTRUCTION  
(CIVIL ENGINEERING)**

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

1. a) Describe the process of blasting of stones 7 M  
b) What is meant by dressing of stones? Describe its various varieties. 7 M
  
2. a) Describe the working of Hoffman's kiln for the burning of bricks with neat sketch. 7 M  
b) Explain various tests to which bricks are generally subjected. 7 M
  
3. a) Discuss various defects in timber due to natural forces with neat sketches. 7 M  
b) Explain the process of manufacturing of steel by 'Open-Hearth process'. 7 M
  
4. a) What are the ingredients of an oil borne paint? Discuss 7 M

- b) Write notes on
- i) sound absorbing materials
  - ii) sound insulation
- 7 M
5. a) Explain Steel Grillage foundation with a neat sketch 7 M
- b) Briefly discuss the classification of stone masonry. 7 M
6. a) Define
- i) Lap
  - ii) Perpend
  - iii) Quoin
  - iv) Frog
  - v) BAT
- 7 M
- b) List out various types of bonds in brick work. Discuss FLEMISH BOND. 7 M
7. a) Discuss the causes and effects of dampness. 7 M
- b) Write short notes on 7 M
- i) Ceiling
  - ii) Terrazzo
8. a) Define 7 M
- i) Batten
  - ii) Eaves
  - iii) Verge
  - iv) Rafter
  - v) HIP
- b) Describe different types of scaffolding. 7 M