

**II B. Tech I Semester Regular Examinations, March - 2021**  
**BUILDING MATERIALS AND CONSTRUCTION**  
**(Civil Engineering)**

Time : 3 Hours

Max. Marks : 60

**Note : Answer ONE question from each unit (5 × 12 = 60 Marks)**

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**UNIT-I**

1. a) Explain the various qualities of a good brick. [6M]  
b) Differentiate between clamp and kiln burning? [6M]

**(OR)**

2. a) Discuss the role of lime stone in brick manufacturing. [6M]  
b) Briefly explain properties of building stones. [6M]

**UNIT-II**

3. a) Explain the manufacturing of steel using open hearth process with a neat sketch. [8M]  
b) Mention any four characteristics of a good tile. [4M]

**(OR)**

4. a) Explain about the defects in timber and also mention how timber can be preserved? [8M]  
b) Give the various uses of steel in building construction. [4M]

**UNIT-III**

5. a) Explain the tests conducted to find setting time and compressive strength of cement. [8M]  
b) Mention various field tests for cement. [4M]

**(OR)**

6. a) Mention various methods of manufacturing of lime. Explain one method in detail. [8M]  
b) List out various ingredients of lime. [4M]

**UNIT-IV**

7. a) Enumerate the advantages and disadvantages of flat roofs over a pitched roof. [6M]  
b) List out different type of floors and explain any one of them in detail. [6M]

**(OR)**

8. a) Give the classification of arches and explain with neat sketches. [8M]  
b) Differentiate the English bond and Flemish bond in terms of arrangement of bricks. [4M]

**UNIT-V**

9. a) Explain any two methods of preventing dampness. [6M]  
b) Write about white washing and distempering. [6M]

**(OR)**

10. a) Define form work. What are the stages involved in construction of form work? [8M]  
Explain briefly.  
b) What is scaffolding? Mention any two types. [4M]

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